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 NEWS  1           Web Page for STN Seminar Schedule - N. America
 NEWS  2  AUG 15   CAOLD to be discontinued on December 31, 2008
 NEWS  3  OCT 07   EPFULL enhanced with full implementation of EPC2000
 NEWS  4  OCT 07   Multiple databases enhanced for more flexible patent
                   number searching
 NEWS  5  OCT 22   Current-awareness alert (SDI) setup and editing
                   enhanced
 NEWS  6  OCT 22   WPIDS, WPINDEX, and WPIX enhanced with Canadian PCT
                   Applications
 NEWS  7  OCT 24   CHEMLIST enhanced with intermediate list of
                   pre-registered REACH substances
 NEWS  8  NOV 21   CAS patent coverage to include exemplified prophetic
                   substances identified in English-, French-, German-,
                   and Japanese-language basic patents from 2004-present
 NEWS  9  NOV 26   MARPAT enhanced with FSORT command
 NEWS 10  NOV 26   MEDLINE year-end processing temporarily halts
                   availability of new fully-indexed citations
 NEWS 11  NOV 26   CHEMSAFE now available on STN Easy
 NEWS 12  NOV 26   Two new SET commands increase convenience of STN
                   searching
 NEWS 13  DEC 01   ChemPort single article sales feature unavailable
 NEWS 14  DEC 12   GBFULL now offers single source for full-text
                   coverage of complete UK patent families
 NEWS 15  DEC 17   Fifty-one pharmaceutical ingredients added to PS
 NEWS 16  JAN 06   The retention policy for unread STNmail messages
                   will change in 2009 for STN-Columbus and STN-Tokyo

 NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,
              AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS LOGIN    Welcome Banner and News Items
 NEWS IPC8     For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that
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* * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 14:08:06 ON 06 JAN 2009
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=> file reg
COST IN U.S. DOLLARS                                    SINCE FILE      TOTAL
                                                             ENTRY    SESSION
FULL ESTIMATED COST                                           0.22       0.22

FILE 'REGISTRY' ENTERED AT 14:08:20 ON 06 JAN 2009
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STRUCTURE FILE UPDATES:    5 JAN 2009  HIGHEST RN 1092651-12-1
DICTIONARY FILE UPDATES:   5 JAN 2009  HIGHEST RN 1092651-12-1

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http://www.cas.org/support/stngen/stndoc/properties.html

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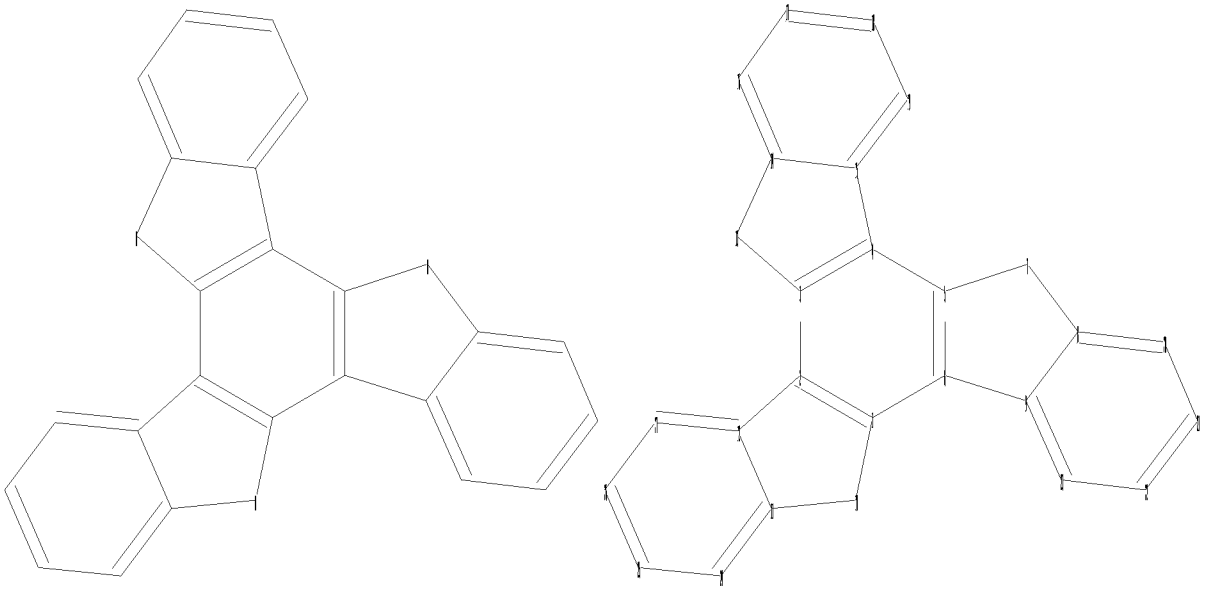

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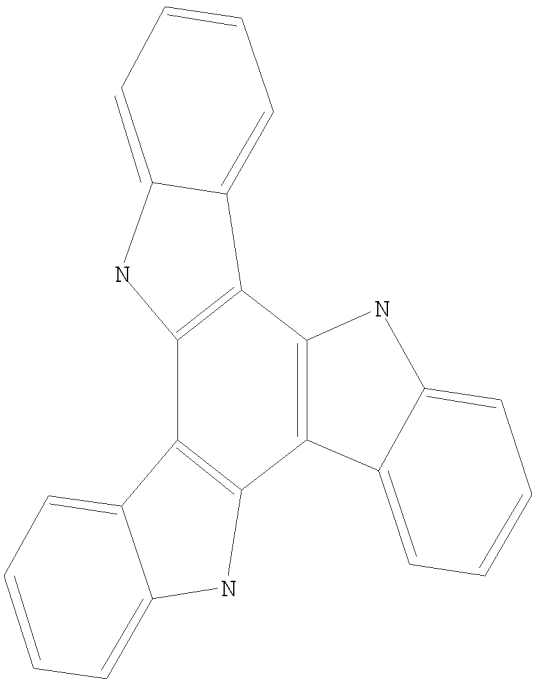
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13  14  15  16  17  18  19  20  21  22  23
24  25  26  27
ring bonds :
1-2  1-6  1-10  2-3  2-12  3-4  3-13  4-5  4-15  5-6  5-7  6-9  7-8  8-9  8-20
9-23  10-11  11-12  11-24  12-27  13-14  14-15  14-16  15-19  16-17  17-18  18-19
20-21  21-22  22-23  24-25  25-26  26-27
```

exact/norm bonds :
1-10 2-12 3-13 4-15 5-7 6-9 7-8 10-11 13-14
normalized bonds :
1-2 1-6 2-3 3-4 4-5 5-6 8-9 8-20 9-23 11-12 11-24 12-27 14-15 14-16
15-19 16-17 17-18 18-19 20-21 21-22 22-23 24-25 25-26 26-27

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom
20:Atom 21:Atom 22:Atom 23:Atom 24:Atom 25:Atom 26:Atom 27:Atom

L1   STRUCTURE UPLOADED

=> d l1
L1 HAS NO ANSWERS
L1   STR



Structure attributes must be viewed using STN Express query preparation.

=> s l1 sss ful
FULL SEARCH INITIATED 14:08:37 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -   13239 TO ITERATE

100.0% PROCESSED   13239 ITERATIONS   149 ANSWERS
SEARCH TIME: 00.00.01

L2   149 SEA SSS FUL L1

=> file capl
COST IN U.S. DOLLARS   SINCE FILE   TOTAL
                                                         ENTRY   SESSION

FULL ESTIMATED COST 185.88 186.10

FILE 'CAPLUS' ENTERED AT 14:08:42 ON 06 JAN 2009
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FILE COVERS 1907 - 6 Jan 2009 VOL 150 ISS 2
FILE LAST UPDATED: 5 Jan 2009 (20090105/ED)

Caplus now includes complete International Patent Classification (IPC)
reclassification data for the third quarter of 2008.

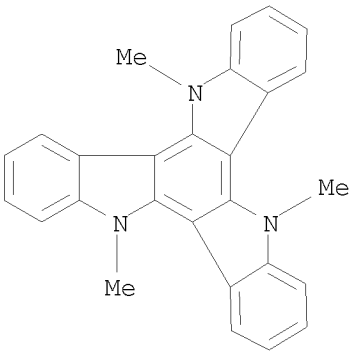
Effective October 17, 2005, revised CAS Information Use Policies apply.
They are available for your review at:

http://www.cas.org/legal/infopolicy.html

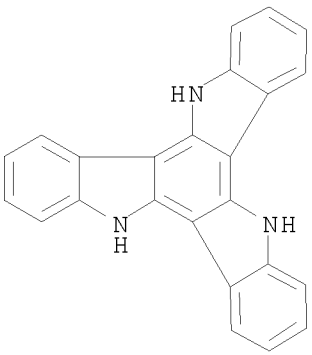
=> s l2
L3 62 L2

=> d l3 1-62 ibib hitstr

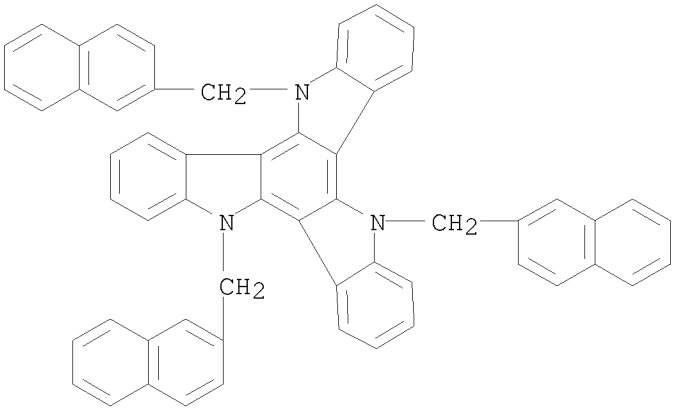
L3 ANSWER 1 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1383599 CAPLUS
DOCUMENT NUMBER: 149:555103
TITLE: Cu, Ni, and Pd mediated homocoupling reactions in biaryl syntheses: The Ullmann reaction
AUTHOR(S): Nelson, Todd D.; Crouch, R. David
CORPORATE SOURCE: Merck and Co., Wayne, PA, USA
SOURCE: Organic Reactions (Hoboken, NJ, United States) (2004), 63, No pp. given
CODEN: ORHNBA
URL: http://www3.interscience.wiley.com/cgi-bin/mrwhome/107610747/HOME
PUBLISHER: John Wiley & Sons, Inc.
DOCUMENT TYPE: Journal; General Review; (online computer file)
LANGUAGE: English
OTHER SOURCE(S): CASREACT 149:555103
IT 75833-66-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(Cu, Ni, and Pd Mediated Homocoupling Reactions in Biaryl Syntheses: The Ullmann Reaction)
RN 75833-66-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



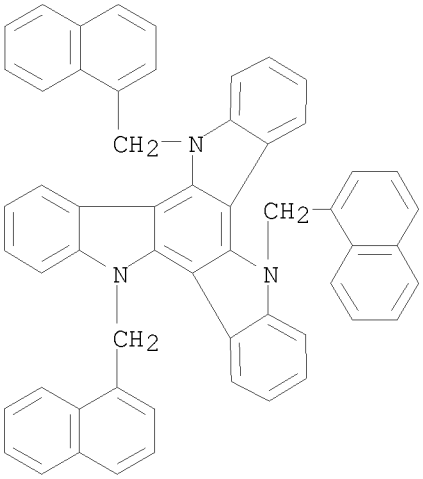
L3 ANSWER 2 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1273452 CAPLUS
TITLE: Synthesis and preferred all-syn conformation of C3-symmetrical N-(hetero)arylmethyl triindoles
AUTHOR(S): Garcia-Frutos, Eva M.; Gomez-Lor, Berta; Monge, Angeles; Gutierrez-Puebla, Enrique; Alkorta, Ibon; Elguero, Jose
CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, 28049, Spain
SOURCE: Chemistry--A European Journal (2008), 14(28), 8555-8561
CODEN: CEUJED; ISSN: 0947-6539
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 109005-10-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-aralkylation; synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)
RN 109005-10-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



IT 1092536-45-2P 1092536-46-3P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(crystallog.; synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)
RN 1092536-45-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



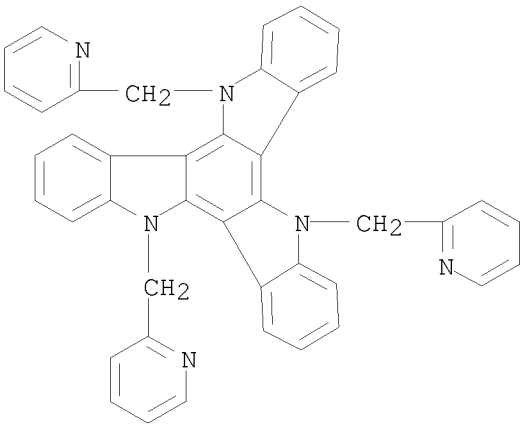
RN 1092536-46-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



IT 1092536-52-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(crystallog.; synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)
RN 1092536-52-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

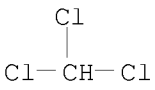
CM 1

CRN 1092536-48-5
CMF C42 H30 N6

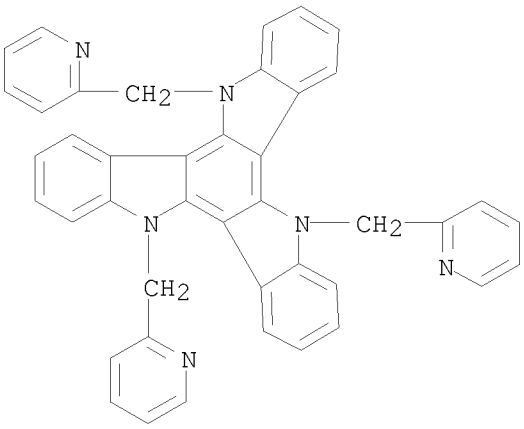


CM 2

CRN 67-66-3
CMF C H Cl3

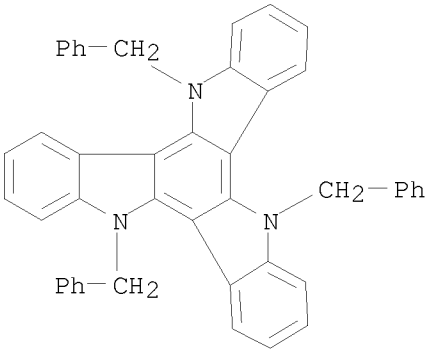


IT 1092536-48-5P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(crystallization; synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)
RN 1092536-48-5 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

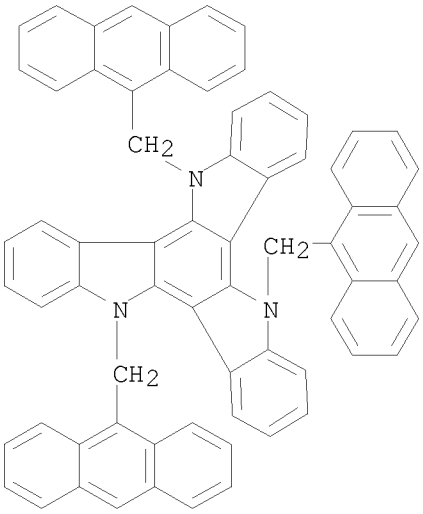


IT 1092536-44-1P 1092536-47-4P 1092536-49-6P
1092536-50-9P 1092536-51-0P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis and preferred all-syn conformation of C3-sym. N-(hetero)arylmethyl triindoles)
RN 1092536-44-1 CAPLUS

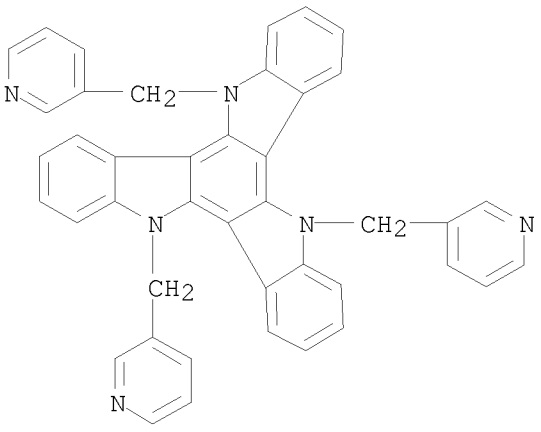
CN INDEX NAME NOT YET ASSIGNED



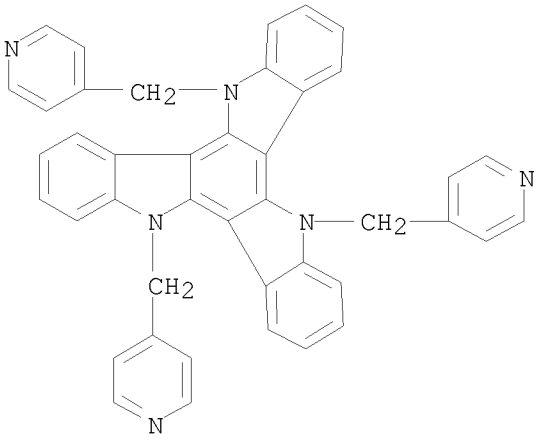
RN 1092536-47-4 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



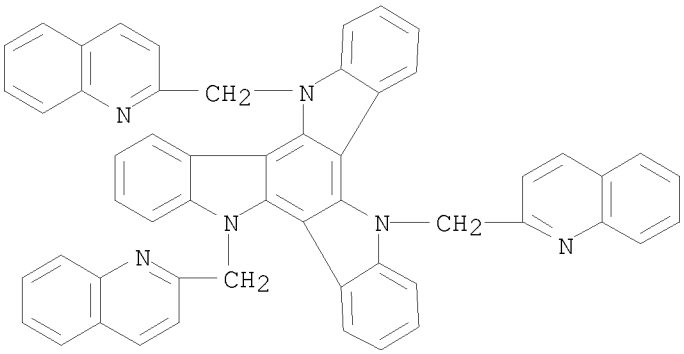
RN 1092536-49-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1092536-50-9 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1092536-51-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

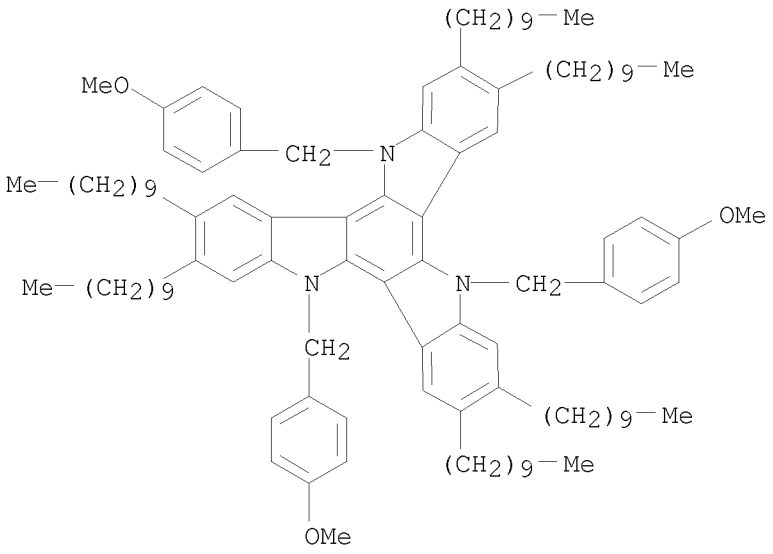


REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

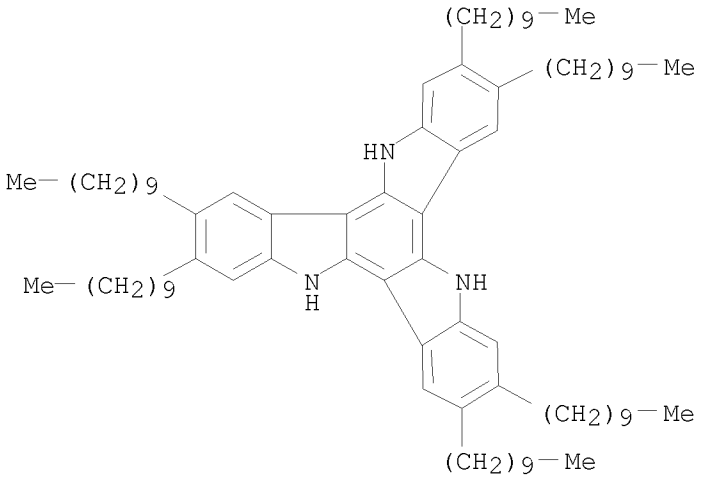
L3 ANSWER 3 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1238729 CAPLUS
DOCUMENT NUMBER: 149:545565
TITLE: New Electrode-Friendly Triindole Columnar phases with High Hole Mobility
AUTHOR(S): Talarico, Mara; Termine, Roberto; Garcia-Frutos, Eva M.; Omenat, Ana; Serrano, Jose L.; Gomez-Lor, Berta; Golemme, Attilio
CORPORATE SOURCE: Centro di Eccellenza CEMIF, CAL LASCAMM CR-INSTM, Licryl CNR-INFM, Dipartimento di Chimica, Universita della Calabria, Rende, 87036, Italy
SOURCE: Chemistry of Materials (2008), 20(21), 6589-6591
CODEN: CMATEX; ISSN: 0897-4756
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 922719-60-6 922719-61-7 1075750-00-3
RL: PEP (Physical, engineering or chemical process); PRP (Properties); TEM

(Technical or engineered material use); PROC (Process); USES (Uses)
(hole transport in triindole columnar discotic liquid crystals)

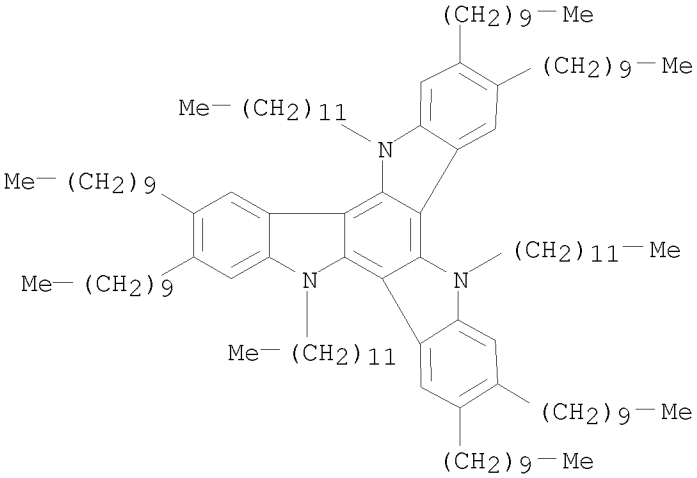
RN 922719-60-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



RN 922719-61-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro- (CA INDEX NAME)



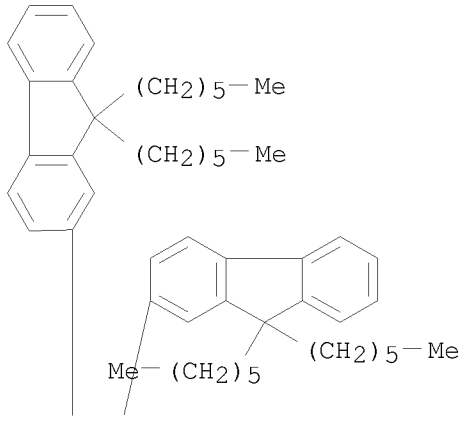
RN 1075750-00-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



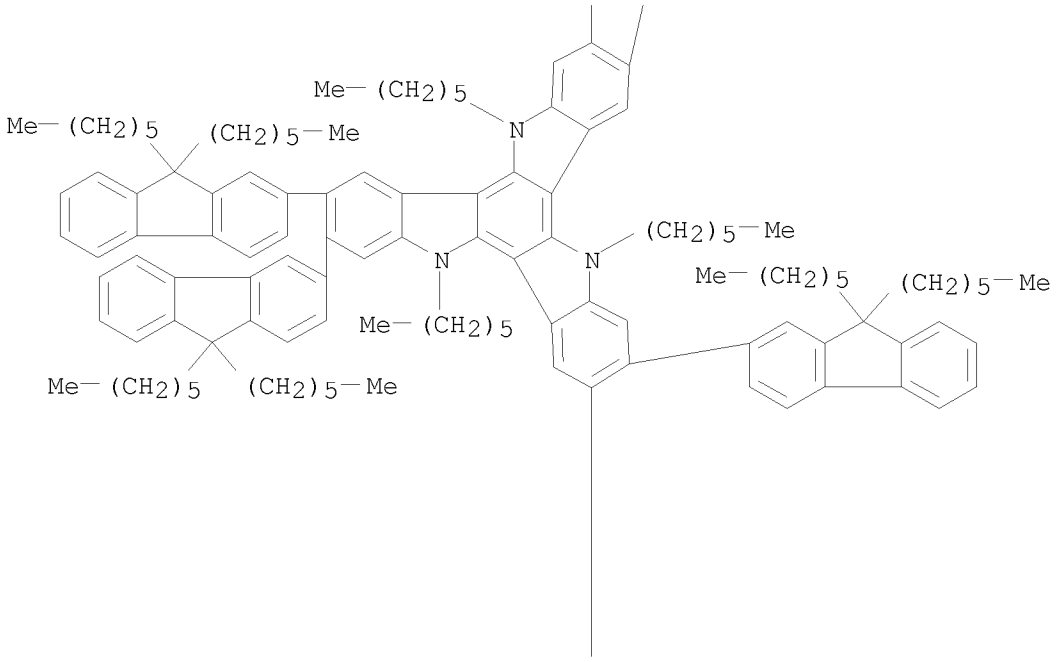
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 4 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1143433 CAPLUS
DOCUMENT NUMBER: 149:534017
TITLE: Synthesis and characterization of starburst 9-phenylcarbazole/triazatruxene hybrids
AUTHOR(S): Lai, Wen-Yong; He, Qi-Yuan; Chen, Dao-Yong; Huang, Wei
CORPORATE SOURCE: Institute of Advanced Materials, Fudan University, Shanghai, 200433, Peop. Rep. China
SOURCE: Chemistry Letters (2008), 37(9), 986-987
CODEN: CMLTAG; ISSN: 0366-7022
PUBLISHER: Chemical Society of Japan
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 1078162-85-2
RL: PEP (Physical, engineering or chemical process); PRP (Properties); PROC (Process)
(preparation of phenylcarbazole-triazatruxene hybrids via cross-coupling of hexabromotriazatruxene with phenylcarbazole boron esters as key step, and their UV-vis spectra and cyclic voltammetry property)
RN 1078162-85-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

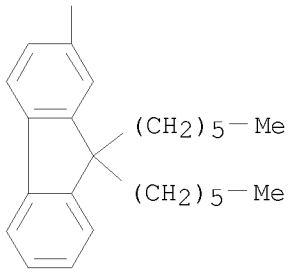
PAGE 1-A



PAGE 2-A

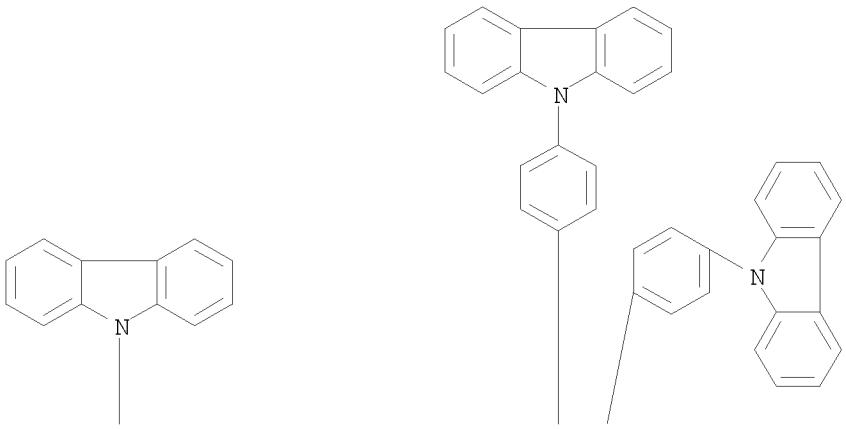


PAGE 3-A



IT 1078162-83-0P 1078162-84-1P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of phenylcarbazole-triazatruxene hybrids via cross-coupling of hexabromotriazatruxene with phenylcarbazole boron esters as key step, and their UV-vis spectra and cyclic voltammetry property)
RN 1078162-83-0 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A



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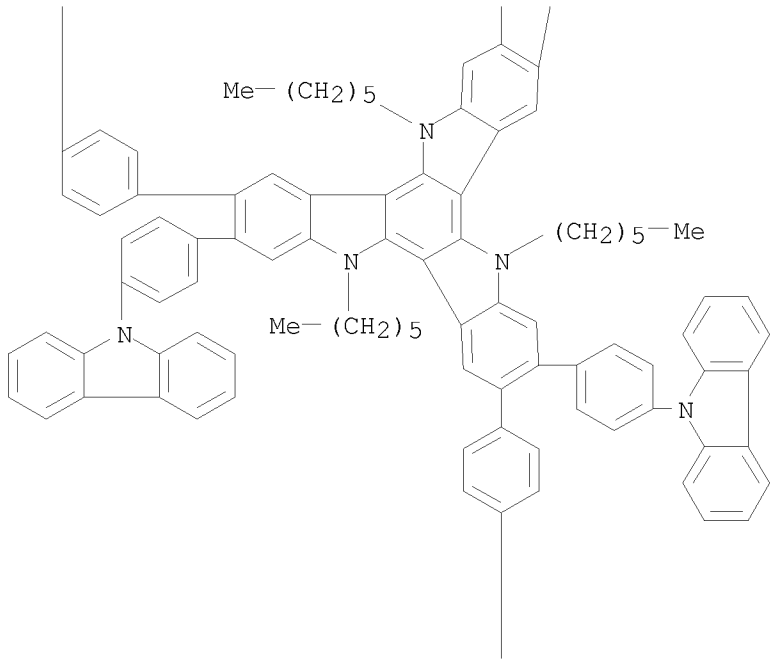
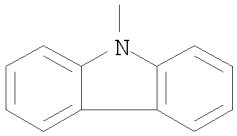
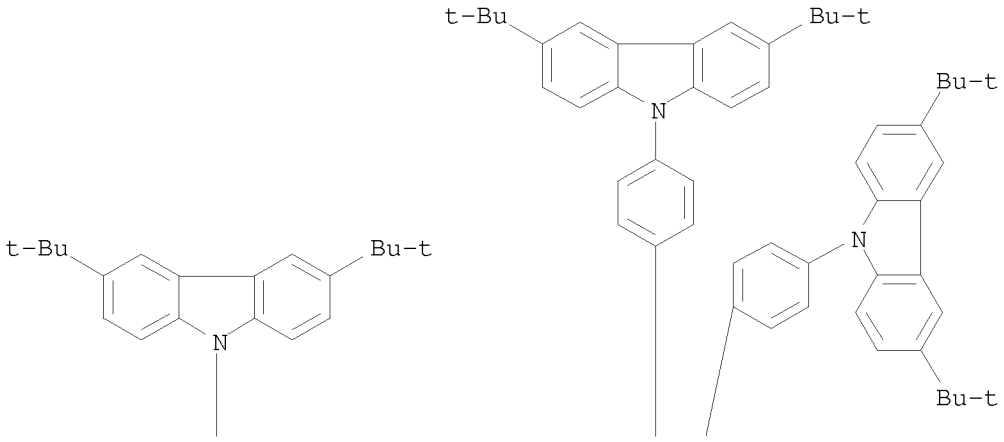


PAGE 3-A

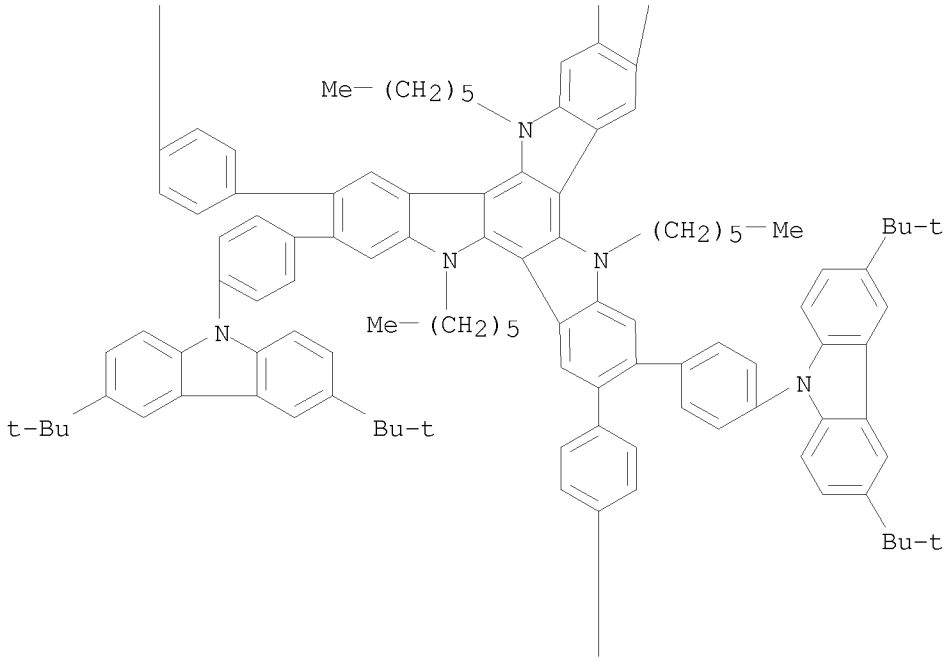


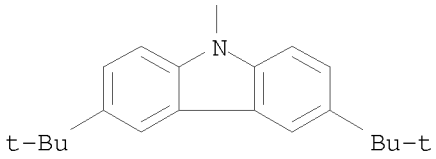
RN 1078162-84-1 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

PAGE 1-A

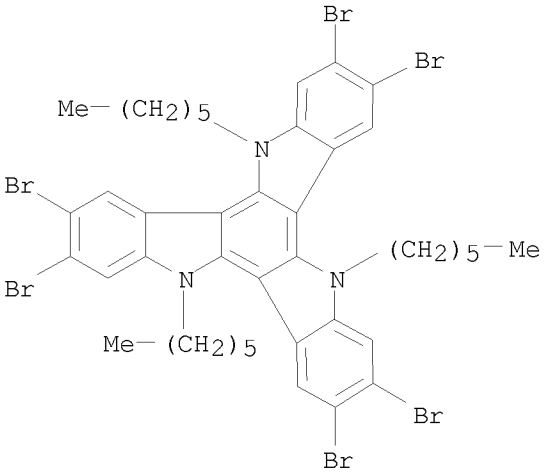


PAGE 2-A





IT 894357-86-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of phenylcarbazole-triazatruxene hybrids via cross-coupling of hexabromotriazatruxene with phenylcarbazole boron esters as key step, and their UV-vis spectra and cyclic voltammetry property)
RN 894357-86-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 17 THERE ARE 17 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

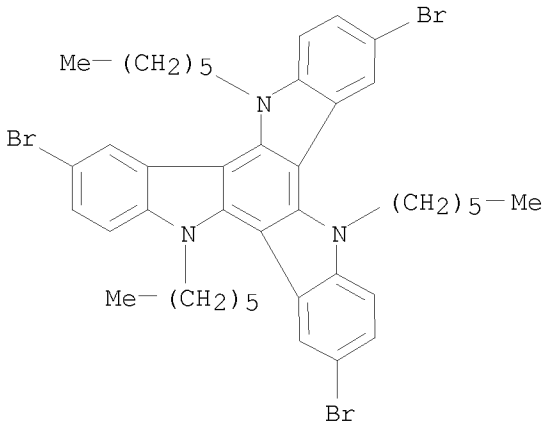
L3 ANSWER 5 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:1061959 CAPLUS
DOCUMENT NUMBER: 149:389587
TITLE: Blue light emitting functional material and its application
INVENTOR(S): Huang, Wei; Lai, Wenyong; He, Qiyuan
PATENT ASSIGNEE(S): Nanjing University of Posts and Telecommunications, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 21pp. CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101250404	A	20080827	CN 2007-10192017	20071228
PRIORITY APPLN. INFO.:			CN 2007-10192017	20071228

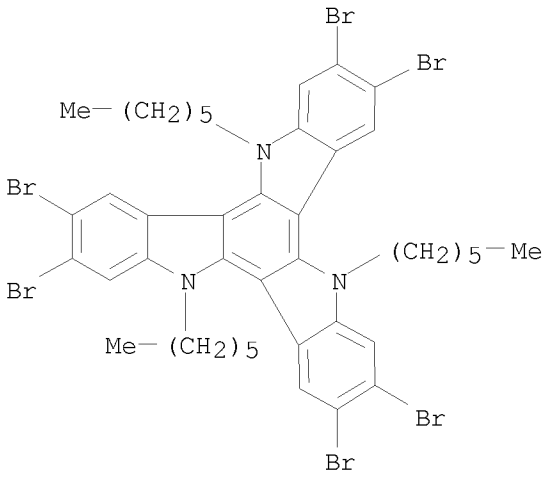
IT 862856-06-2P 894357-86-9P 1020085-72-6P

RL: PEP (Physical, engineering or chemical process); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); PROC (Process); RACT (Reactant or reagent)
(blue light emitting functional material and its application)

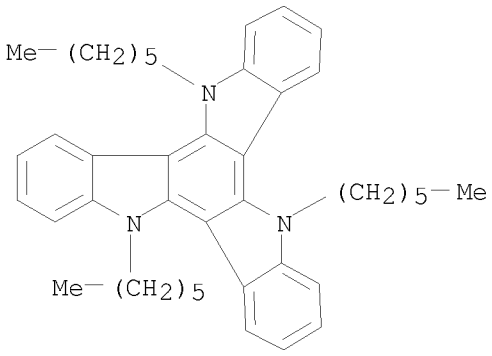
RN 862856-06-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



RN 894357-86-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

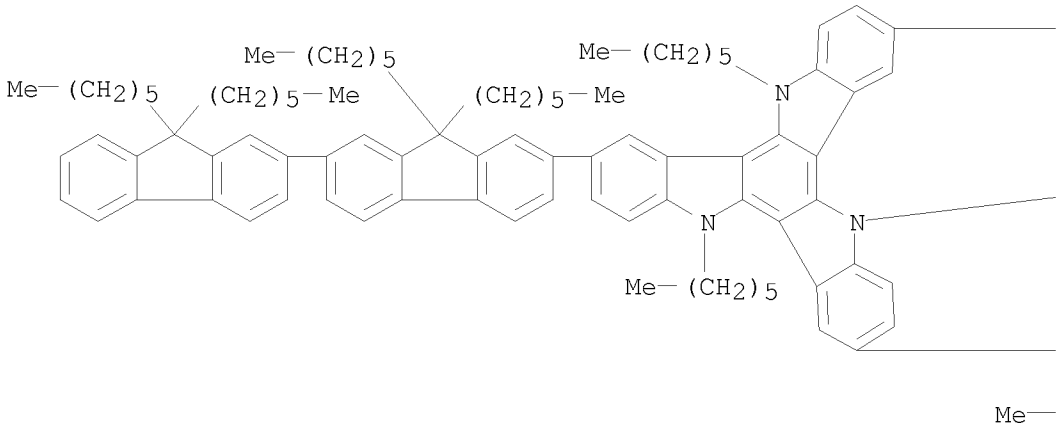


RN 1020085-72-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



IT 943967-38-2P 1059701-75-5P
RL: PEP (Physical, engineering or chemical process); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)
(blue light emitting functional material and its application)
RN 943967-38-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)

PAGE 1-A



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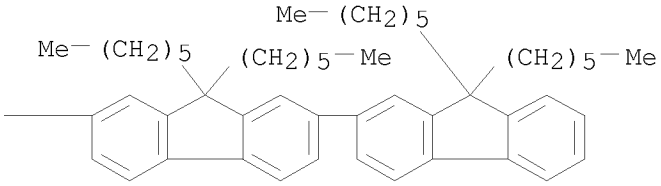

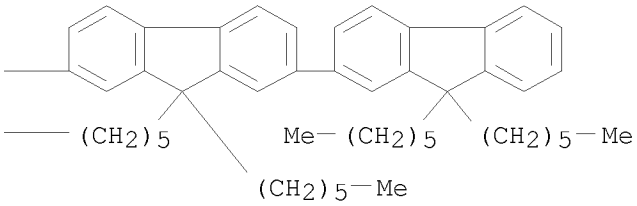

RN 1059701-75-5 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,7,12-tris(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-trihexyl- (CA INDEX NAME)

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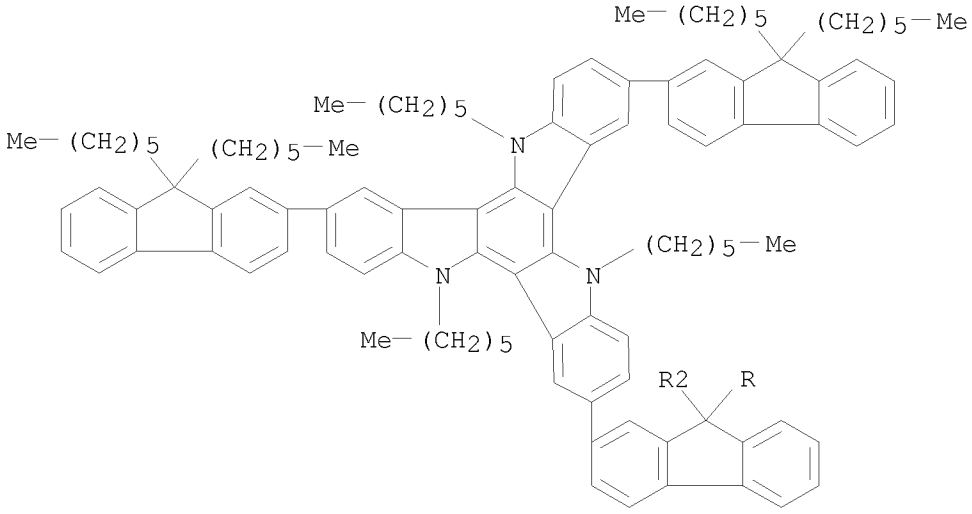
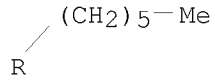
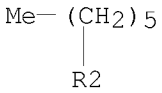
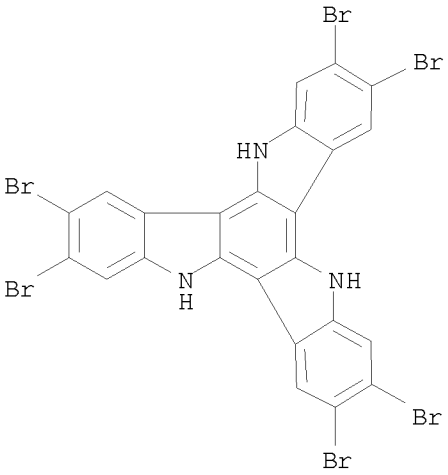


PAGE 2-A





IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(blue light emitting functional material and its application)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



L3 ANSWER 6 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:982143 CAPLUS
DOCUMENT NUMBER: 149:425908
TITLE: Fullerenes from aromatic precursors by surface-catalysed cyclodehydrogenation
AUTHOR(S): Otero, Gonzalo; Biddau, Giulio; Sanchez-Sanchez, Carlos; Caillard, Renaud; Lopez, Maria F.; Rogero, Celia; Palomares, F. Javier; Cabello, Noemi; Basanta, Miguel A.; Ortega, Jose; Mendez, Javier; Echavarren, Antonio M.; Perez, Ruben; Gomez-Lor, Berta; Martin-Gago, Jose A.
CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid (CSIC), Madrid, 28049, Spain
SOURCE: Nature (London, United Kingdom) (2008), 454(7206), 865-868
CODEN: NATUAS; ISSN: 0028-0836
PUBLISHER: Nature Publishing Group
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 757233-19-5P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP

(Preparation); RACT (Reactant or reagent)
(ab initio calcns.; preparation of C60-fullerene and triazafullerene from aromatic precursors by surface-catalyzed cyclodehydrogenation)

RN 757233-19-5 CAPLUS

CN 9H,20H,31H-Tribenzo[k,k',k'']benzo[1''',2''':4,5;3''',4''':4',5';5''',6''':4'',5'']tripyrrolo[3,2,1-de:3',2',1'-d'e':3'',2'',1''-d''e'']triphenanthridine (9CI) (CA INDEX NAME)

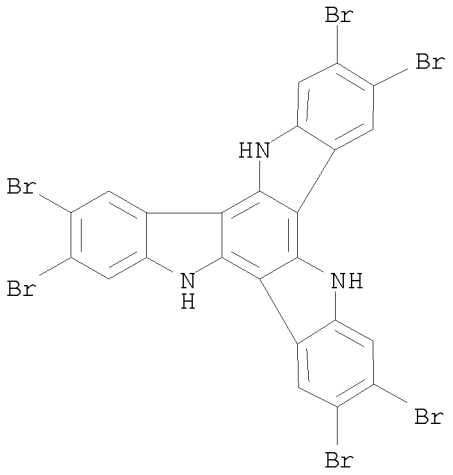
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

IT 307519-55-7

RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of C60-fullerene and triazafullerene from aromatic precursors by surface-catalyzed cyclodehydrogenation)

RN 307519-55-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)

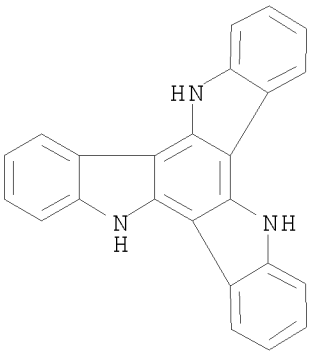


IT 109005-10-9P 757233-25-3P 1066376-38-2P 1066376-39-3P 1066376-40-6P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of C60-fullerene and triazafullerene from aromatic precursors by surface-catalyzed cyclodehydrogenation)

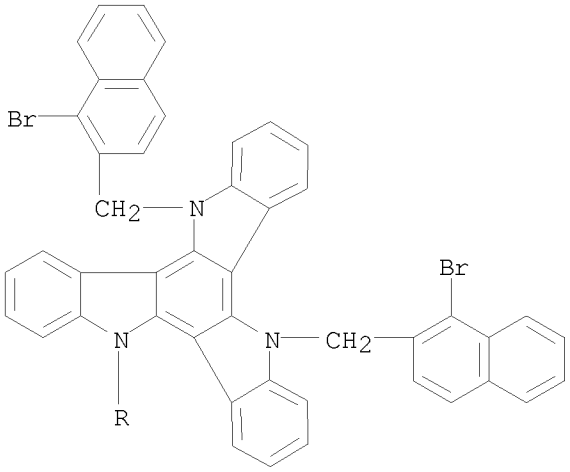
RN 109005-10-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



RN 757233-25-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
5,10,15-tris[(2-bromo-1-naphthalenyl)methyl]-10,15-dihydro- (9CI) (CA
INDEX NAME)

PAGE 1-A



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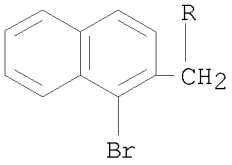
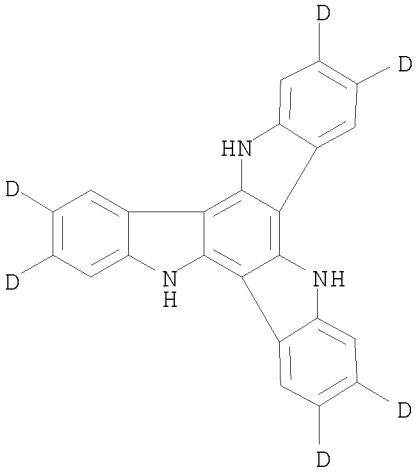


RN 1066376-38-2 CAPLUS
CN INDEX NAME NOT YET ASSIGNED



RN 1066376-39-3 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

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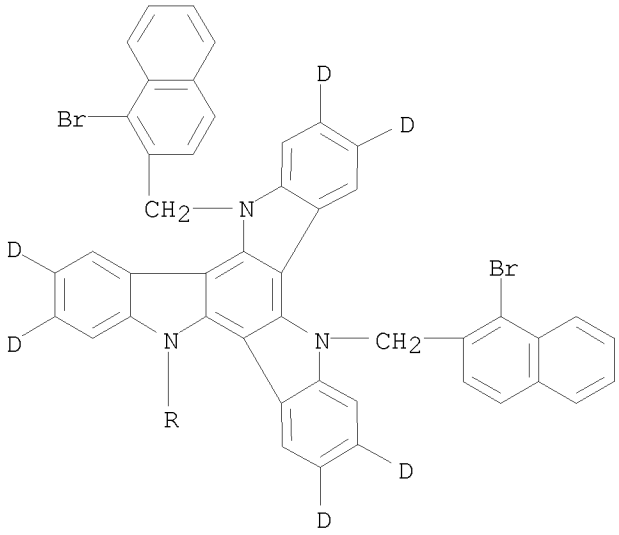
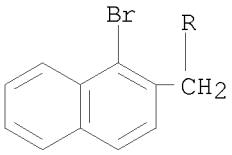


PAGE 2-A

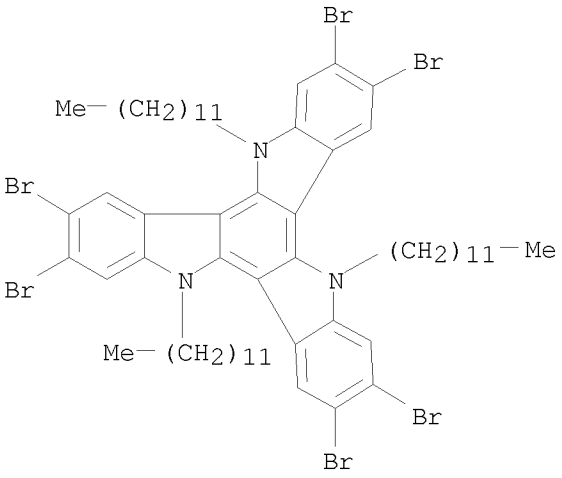


RN 1066376-40-6 CAPLUS
CN INDEX NAME NOT YET ASSIGNED

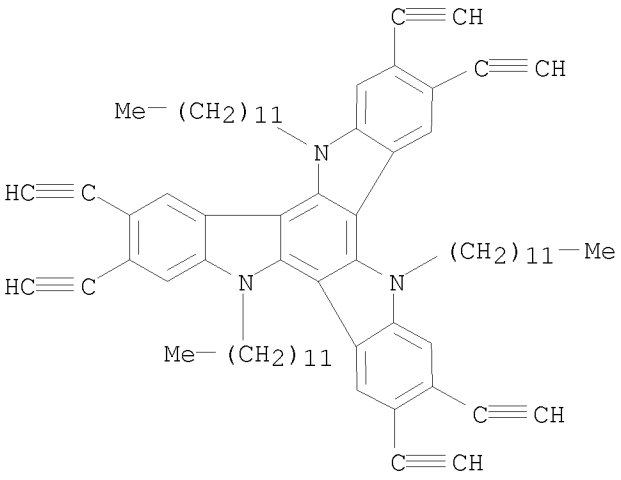
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

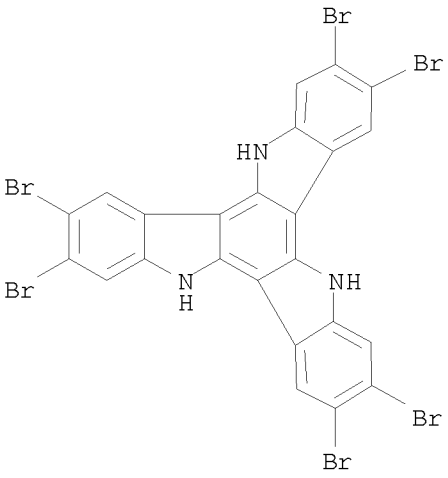
L3 ANSWER 7 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:746167 CAPLUS
DOCUMENT NUMBER: 149:104371
TITLE: Synthesis and Self-Association Properties of Functionalized C3-Symmetric Hexakis(p-substituted-phenylethynyl)triindoles
AUTHOR(S): Garcia-Frutos, Eva M.; Gomez-Lor, Berta
CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, CSIC, Madrid, 28049, Spain
SOURCE: Journal of the American Chemical Society (2008), 130(28), 9173-9177
CODEN: JACSAT; ISSN: 0002-7863
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 1034498-01-5P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(6-fold Sonogashira coupling; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)
RN 1034498-01-5 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-tridodecyl-10,15-dihydro- (CA INDEX NAME)



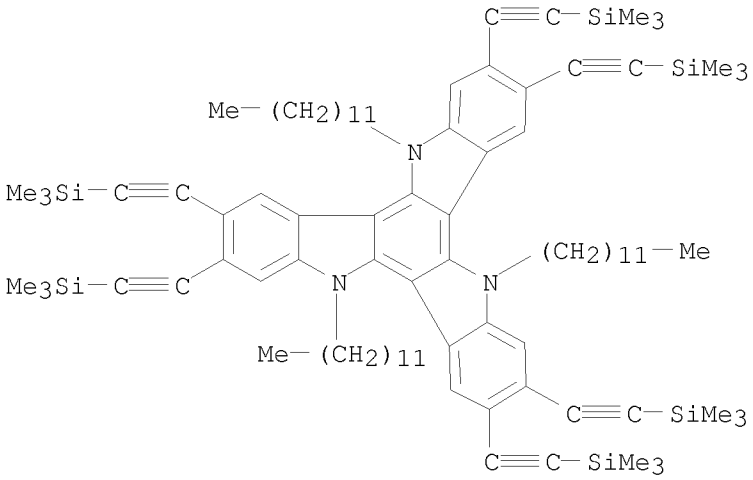
IT 1034498-07-1P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(Sonogashira coupling; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)
RN 1034498-07-1 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-2,3,7,8,12,13-hexaethynyl-10,15-dihydro- (CA INDEX NAME)



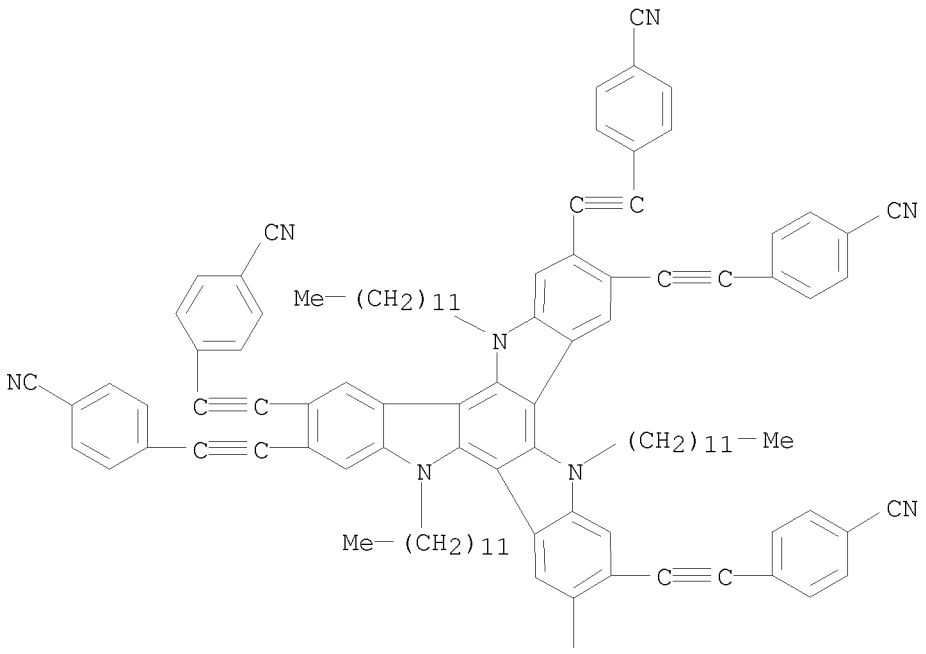
IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(alkylation; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 1034498-06-0P
RL: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(deprotection; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)
RN 1034498-06-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(trimethylsilyl)ethynyl]- (CA INDEX NAME)



IT 1034498-08-2P 1034498-09-3P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(target, no concentration-dependent chemical shifting; synthesis and self-association
properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)
RN 1034498-08-2 CAPLUS
CN Benzonitrile, 4,4',4'',4''',4'''',4'''''-[(5,10,15-tridodecyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexayl)hexa-2,1-ethynediyl]hexakis- (CA INDEX NAME)



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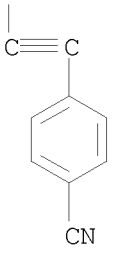

RN 1034498-09-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(4-nitrophenyl)ethynyl]- (CA INDEX NAME)

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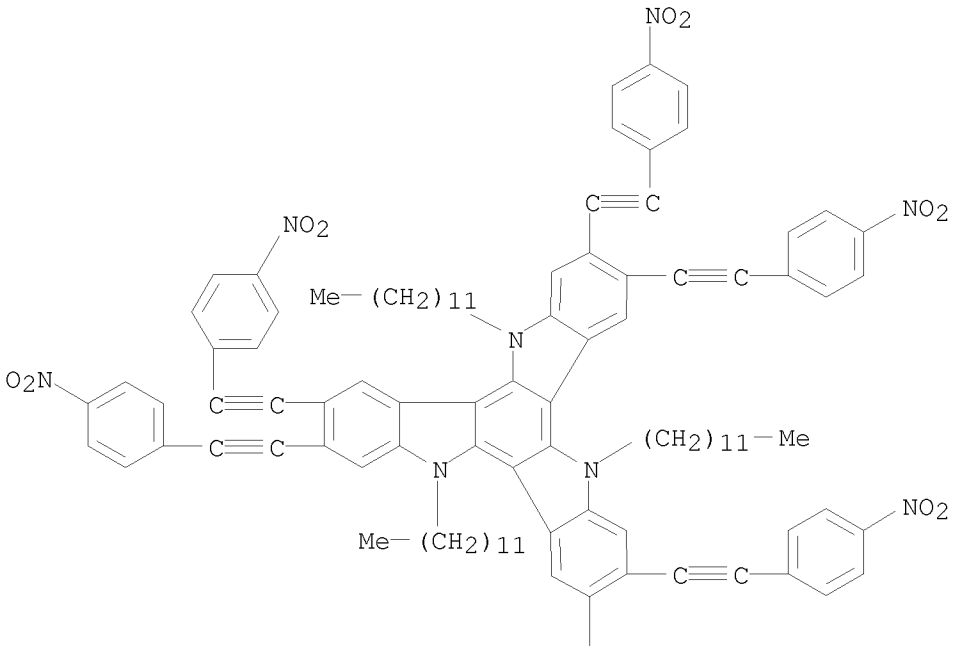
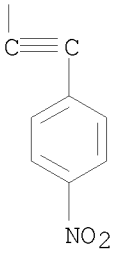


PAGE 2-A



IT 1034498-02-6P 1034498-03-7P 1034498-04-8P
1034498-05-9P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN

(Synthetic preparation); PREP (Preparation); PROC (Process)
(target; synthesis and self-association properties of functionalized C3-sym. hexakis(p-substituted-phenylethynyl)triindoles)

RN 1034498-02-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(4-methoxyphenyl)ethynyl]- (CA INDEX NAME)

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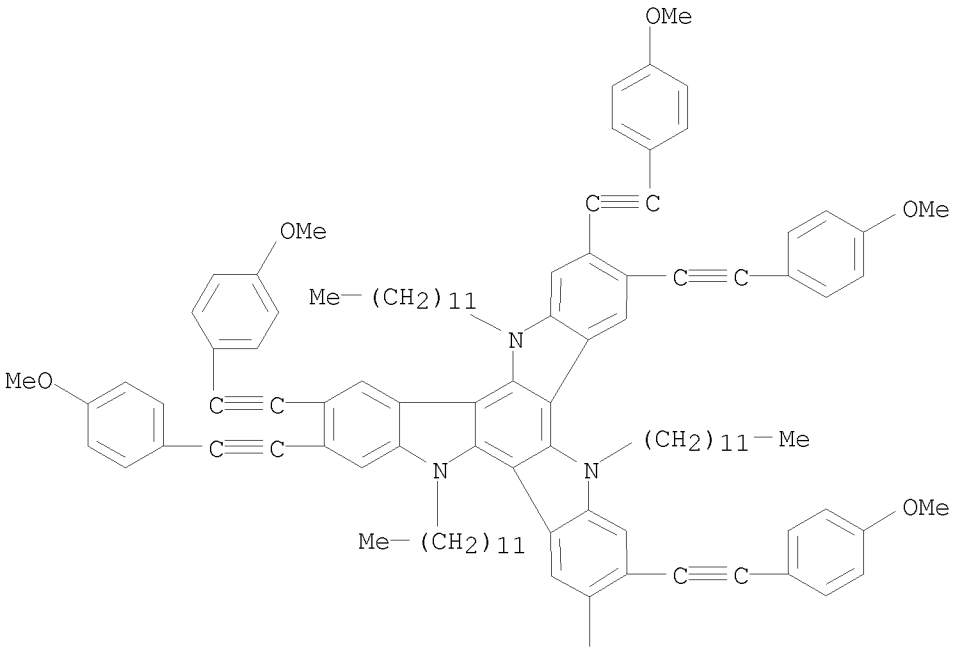

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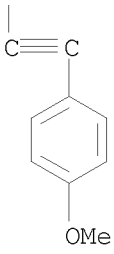

RN 1034498-03-7 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis[2-(4-methylphenyl)ethynyl]- (CA INDEX NAME)

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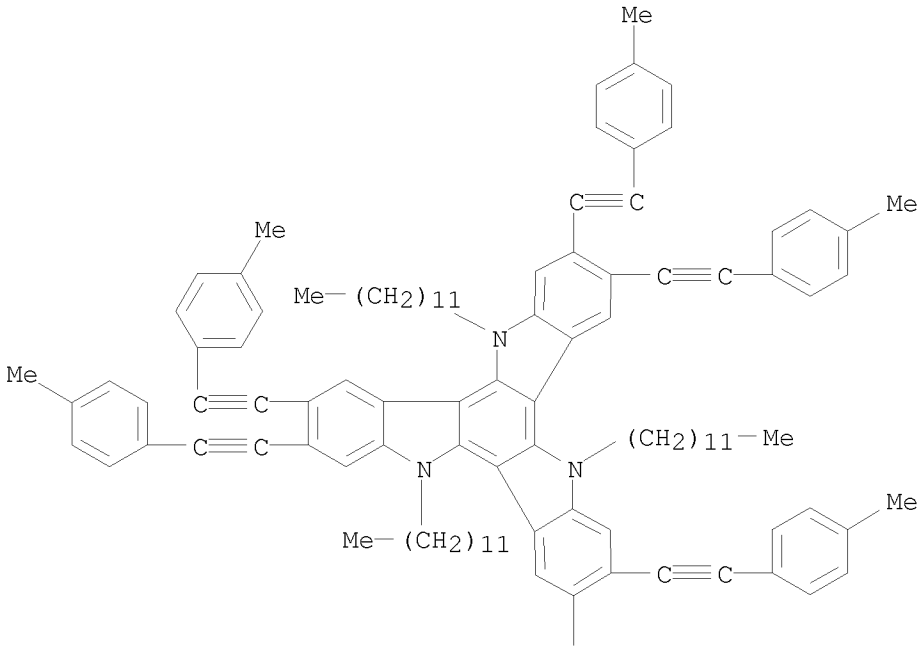
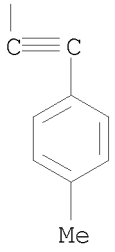
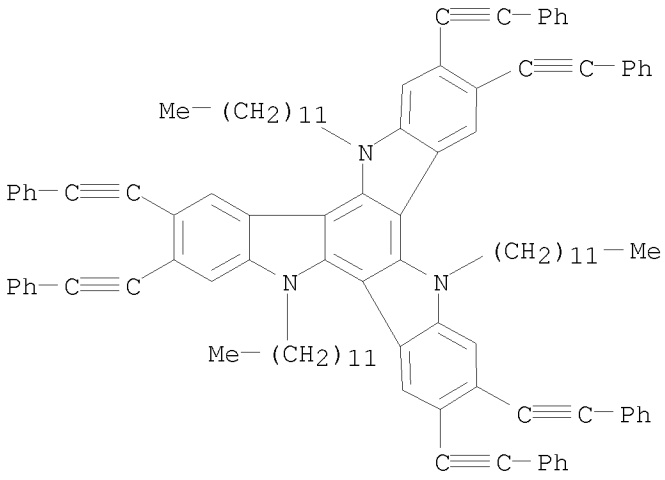


PAGE 2-A

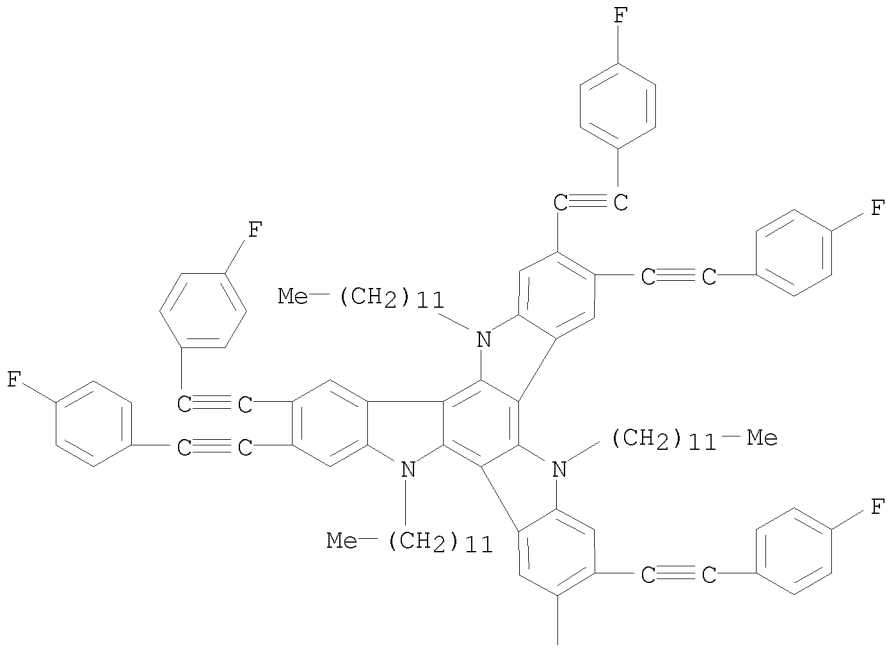


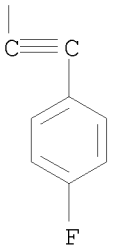
RN 1034498-04-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-10,15-dihydro-2,3,7,8,12,13-hexakis(2-phenylethynyl)- (CA INDEX NAME)



RN 1034498-05-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tridodecyl-2,3,7,8,12,13-hexakis[2-(4-fluorophenyl)ethynyl]-10,15-dihydro- (CA INDEX NAME)

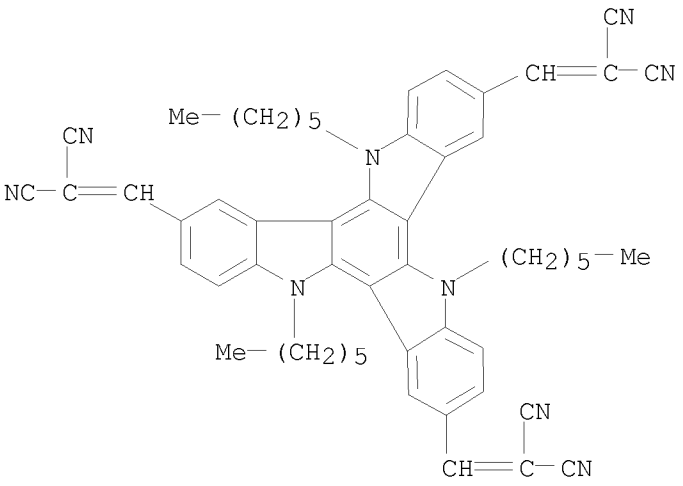
PAGE 1-A





REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 8 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:697472 CAPLUS
DOCUMENT NUMBER: 149:210454
TITLE: Precise determination of the first hyperpolarizability of a fluorescent triindole derivative with dicyanovinyl groups by the deconvolution method
AUTHOR(S): Ikeda, Shigeru; Kumagai, Hironobu; Ooi, Hideo; Konishi, Koji; Hiyoshi, Hidetaka; Wada, Tatsuo
CORPORATE SOURCE: Supramolecular Science Laboratory, RIKEN (The Institute of Physical and Chemical Research), Wako, Saitama, 351-0198, Japan
SOURCE: Chemical Physics Letters (2008), 458(4-6), 337-340
CODEN: CHPLBC; ISSN: 0009-2614
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 862856-16-4
RL: PRP (Properties)
(precise determination of first hyperpolarizability of a fluorescent triindole
derivative with dicyanovinyl groups by the deconvolution method)
RN 862856-16-4 CAPLUS
CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (CA INDEX NAME)



REFERENCE COUNT: 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

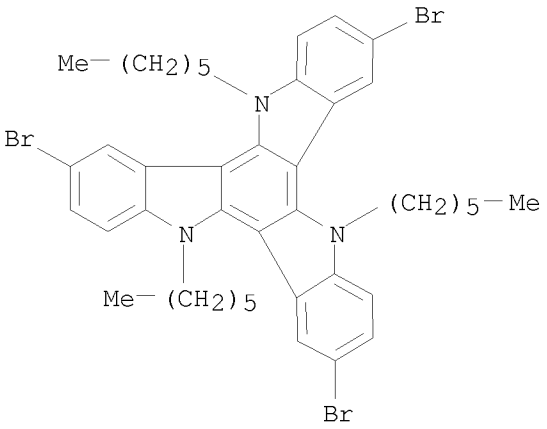
L3 ANSWER 9 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:380498 CAPLUS
DOCUMENT NUMBER: 148:472561
TITLE: Tricarbazole hyperbranched polymer
INVENTOR(S): Huang, Wei; Lai, Wenyong
PATENT ASSIGNEE(S): Nanjing University of Posts & Telecommunications, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 18pp. CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
CN 101148508	A	20080326	CN 2007-10131444	20070829

PRIORITY APPLN. INFO.: CN 2007-10131444 20070829

IT 862856-06-2P 894357-86-9P 1020085-72-6P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(preparation of blue light emitting tricarbazole-containing hyperbranched polymer)

RN 862856-06-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



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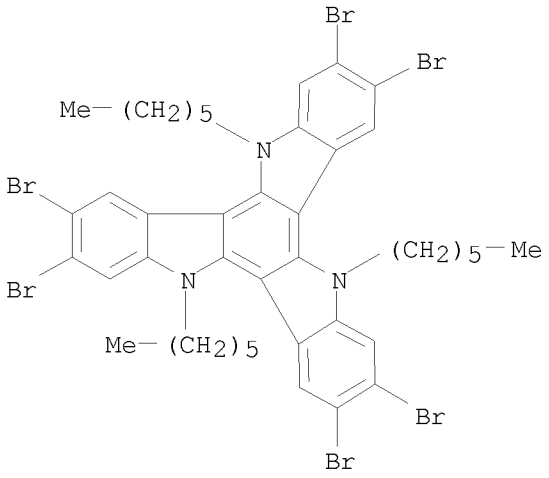
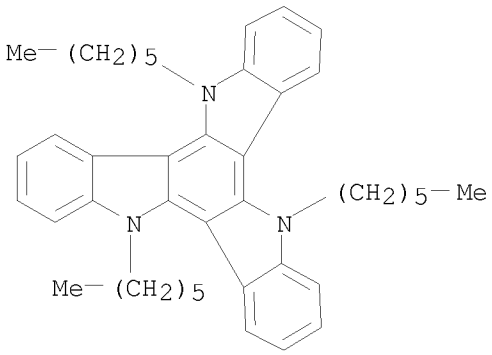
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



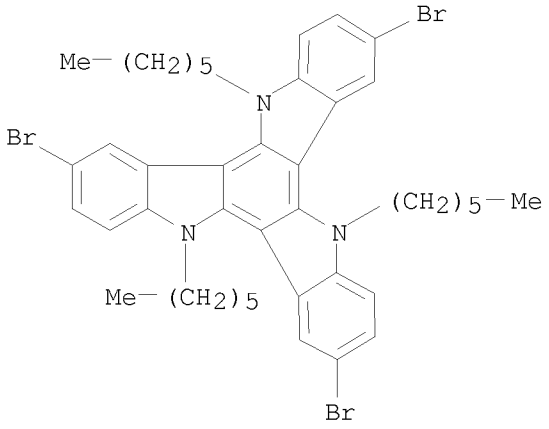
RN 1020085-72-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



IT 1020085-73-7P 1020085-74-8P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of blue light emitting tricarbazole-containing hyperbranched polymer)
RN 1020085-73-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro-, polymer with 2,7-dibromo-9,9-dihexyl-9H-fluorene (CA INDEX NAME)

CM 1

CRN 862856-06-2
CMF C42 H48 Br3 N3



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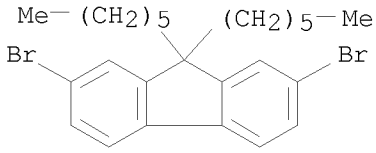

RN 1020085-74-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro-, polymer with 2,7-dibromo-9,9-bis[4-(hexyloxy)phenyl]-9H-fluorene and 2,7-dibromo-9,9'-spirobi[9H-fluorene] (CA INDEX NAME)

CM 1

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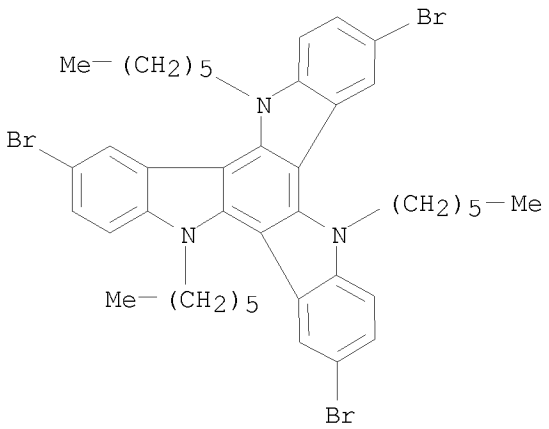

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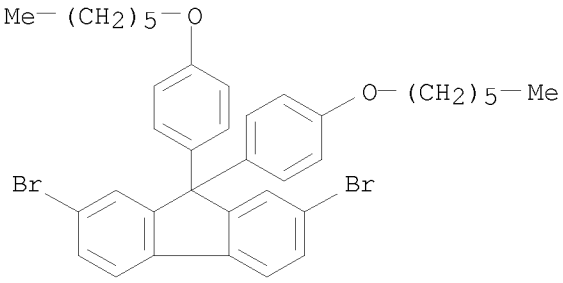

CM 3

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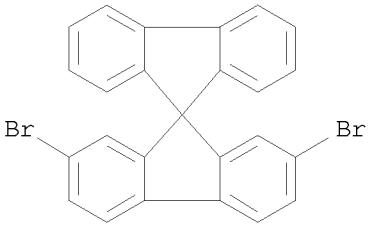
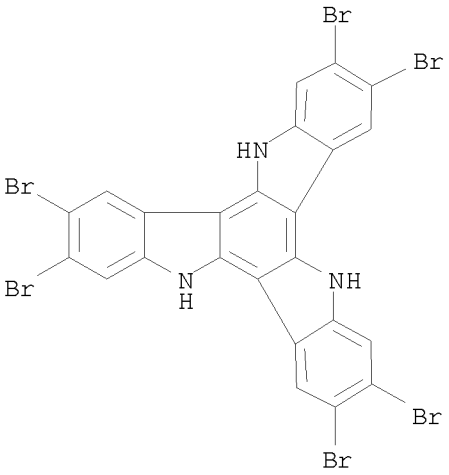
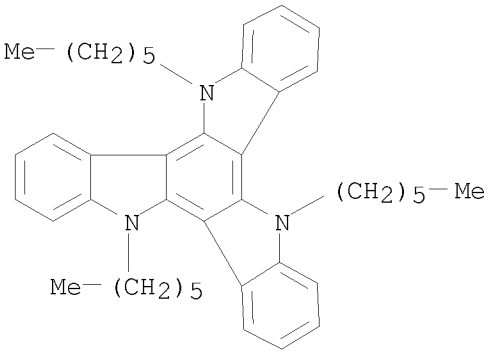
CMF C25 H14 Br2



IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of blue light emitting tricarbazole-containing hyperbranched polymer)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)

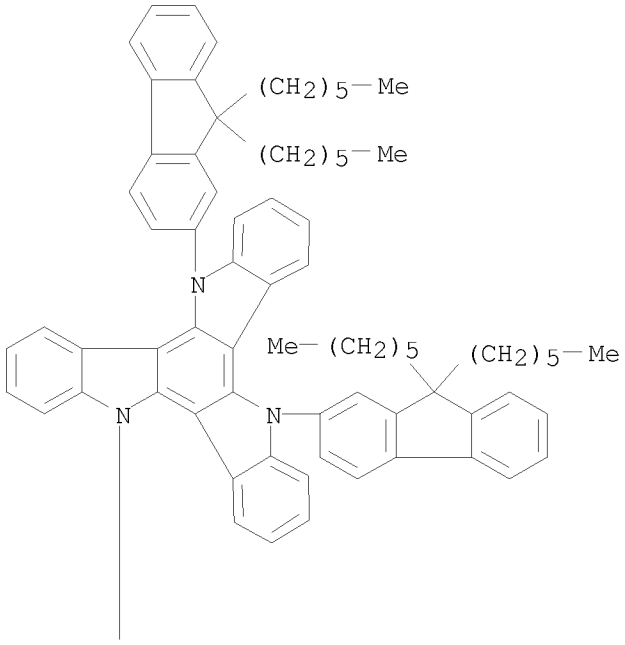


L3 ANSWER 10 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2008:187544 CAPLUS
DOCUMENT NUMBER: 149:186658
TITLE: Kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes
AUTHOR(S): Lai, Wen-Yong; He, Qi-Yuan; Zhu, Rui; Chen, Qing-Quan; Huang, Wei
CORPORATE SOURCE: Institute of Advanced Materials (IAM), Nanjing University of Posts and Telecommunications (NUPT), Nanjing, 210003, Peop. Rep. China
SOURCE: Advanced Functional Materials (2008), 18(2), 265-276
CODEN: AFMDC6; ISSN: 1616-301X
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 1020085-72-6P 1039068-92-2P 1039068-95-5P
1039068-98-8P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes)
RN 1020085-72-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



RN 1039068-92-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro- (CA INDEX NAME)

PAGE 1-A



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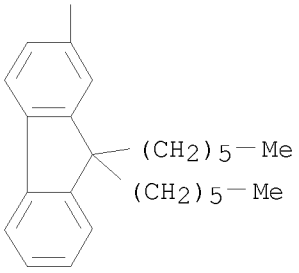
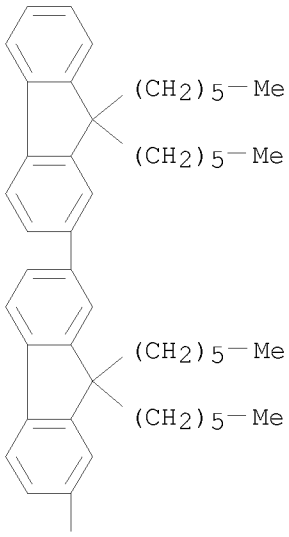


RN 1039068-95-5 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
10,15-dihydro-5,10,15-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)-
(CA INDEX NAME)

PAGE 1-A



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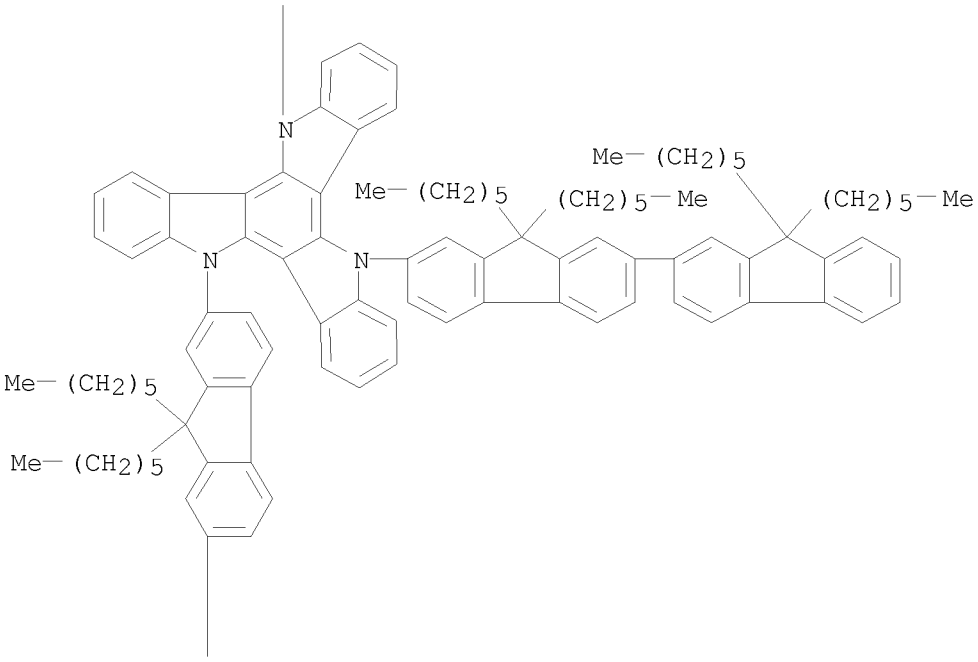
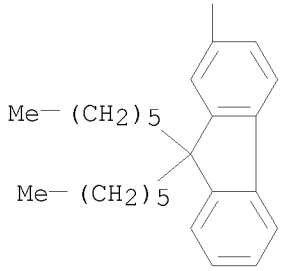
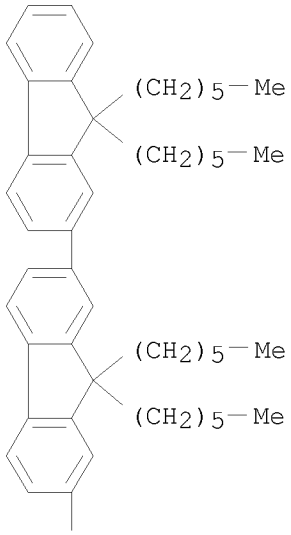


PAGE 3-A



RN 1039068-98-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
5,10,15-tris(9,9,9',9',9'',9''-hexahexyl[2,2':7',2''-ter-9H-fluoren]-7-yl)-
10,15-dihydro- (CA INDEX NAME)

PAGE 1-A



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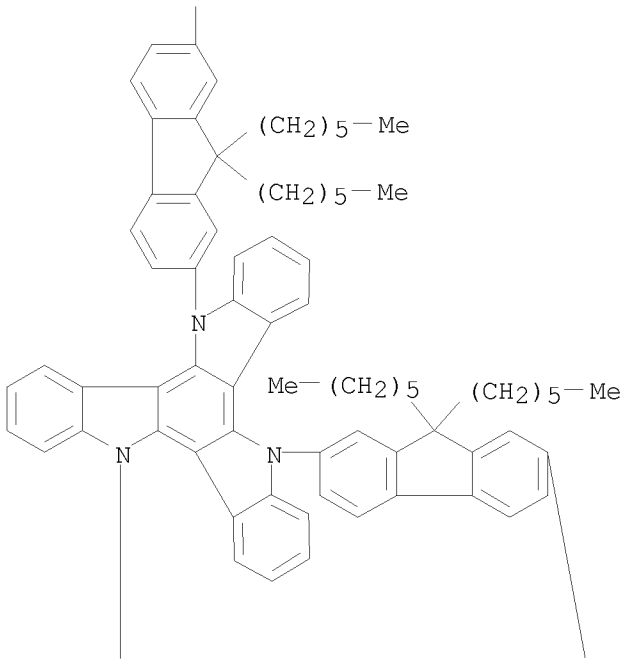

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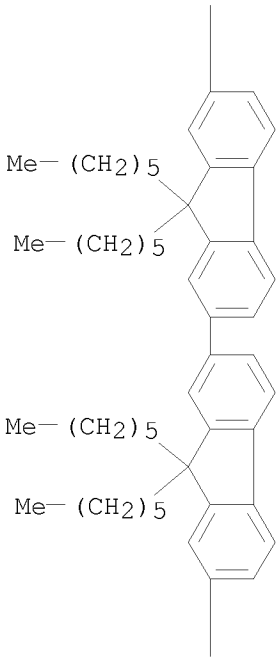
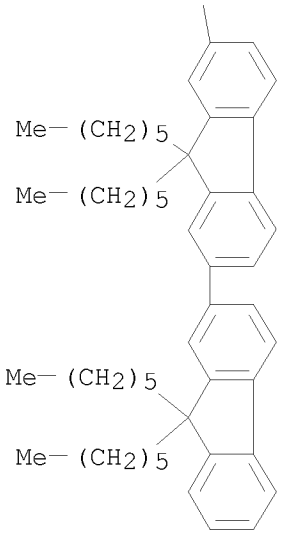
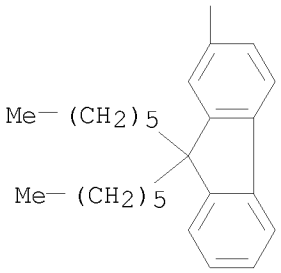
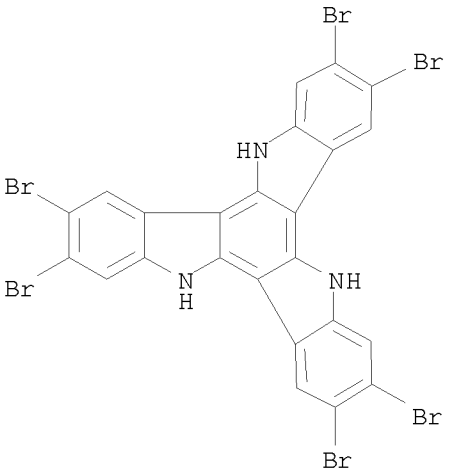


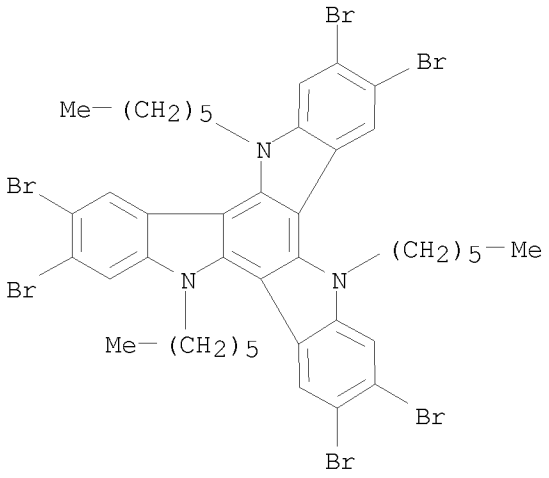




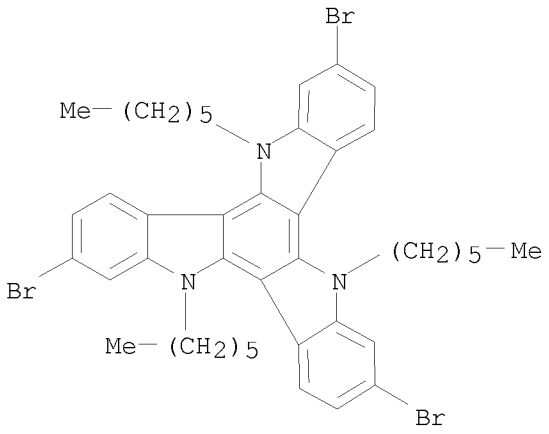
IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 894357-86-9P 1039068-89-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(kinked star-shaped fluorene/triazatruxene co-oligomer hybrids with enhanced functional properties for high-performance, solution-processed, blue organic light-emitting diodes)
RN 894357-86-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



RN 1039068-89-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,7,12-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

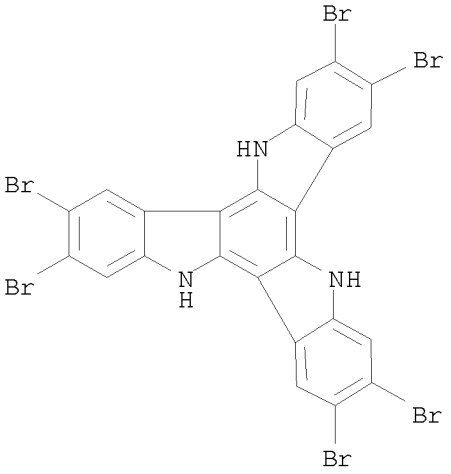


REFERENCE COUNT: 53 THERE ARE 53 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 11 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:1258768 CAPLUS
DOCUMENT NUMBER: 148:11064
TITLE: Process for preparation of diindolo[3,2-a:3',2'-c]carbazole branching compounds as function materials
INVENTOR(S): Huang, Wei; Lai, Wenyong
PATENT ASSIGNEE(S): Fudan University, Peop. Rep. China
SOURCE: Faming Zhuanli Shenqing Gongkai Shuomingshu, 48pp.
CODEN: CNXXEV
DOCUMENT TYPE: Patent
LANGUAGE: Chinese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

CN 101062929 A 20071031 CN 2007-10041725 20070607
PRIORITY APPLN. INFO.: CN 2007-10041725 20070607
OTHER SOURCE(S): CASREACT 148:11064; MARPAT 148:11064
IT 307519-55-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of branching compds. as function materials)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 862856-06-2P 894357-86-9P 957897-02-8P
957897-10-8P 957897-12-0P 957897-15-3P
957897-27-7P 957897-34-6P 957897-37-9P
957897-39-1P 957897-42-6P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; preparation of tricarbazole branching compds. as function materials)
RN 862856-06-2 CAPLUS
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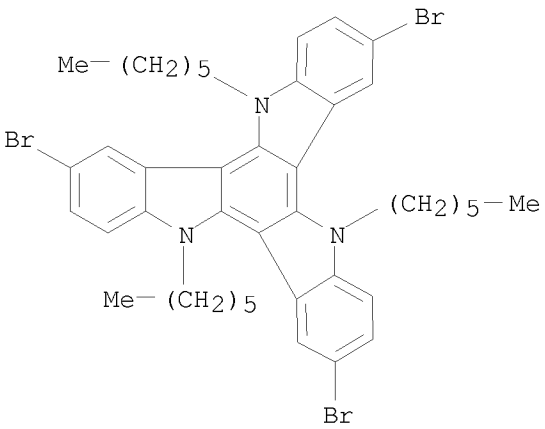

RN 894357-86-9 CAPLUS

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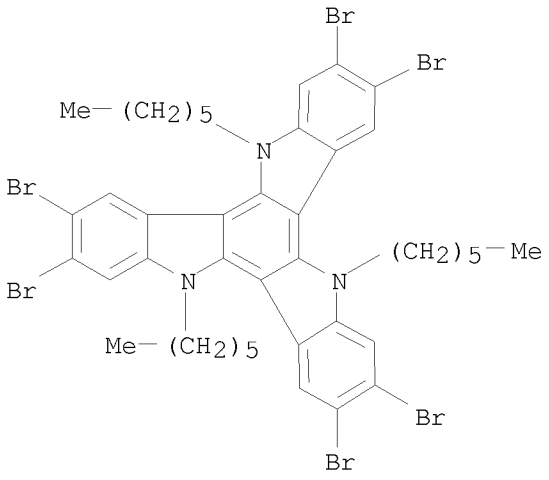

RN 957897-02-8 CAPLUS
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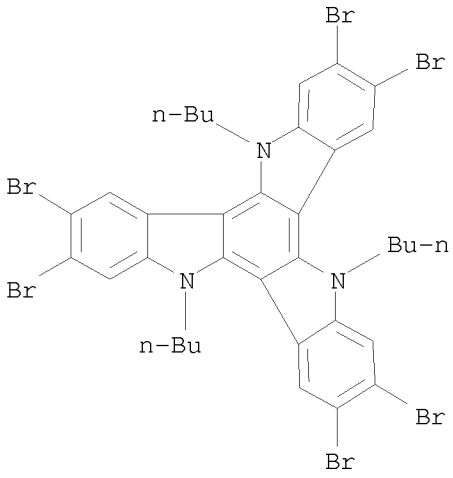
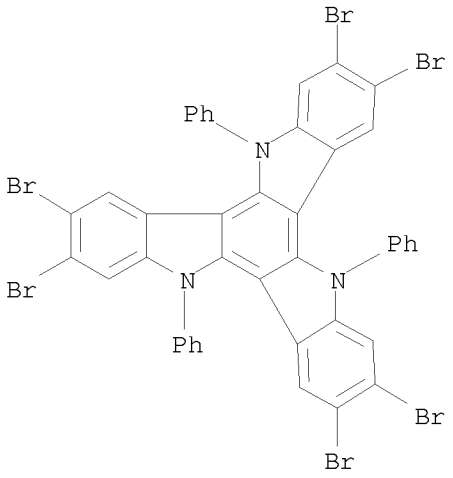


RN 957897-10-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-triphenyl- (CA INDEX NAME)



RN 957897-12-0 CAPLUS
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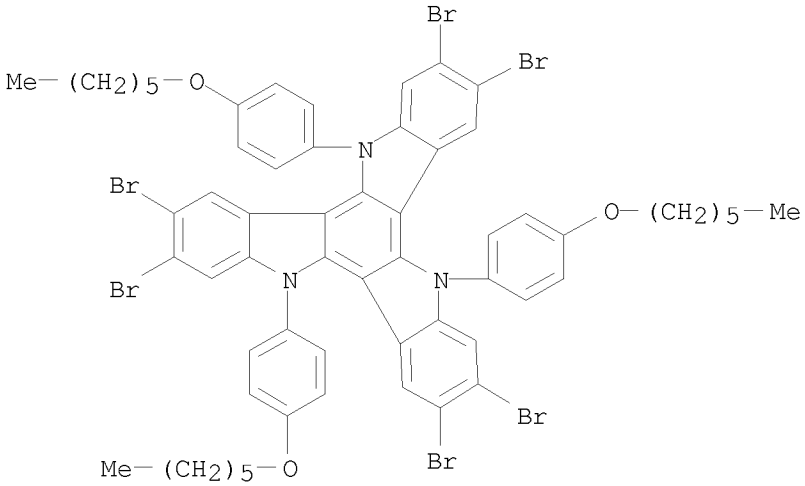
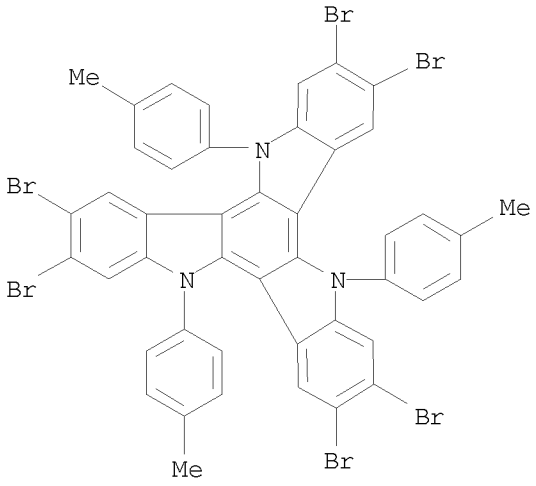
(CA INDEX NAME)



RN 957897-15-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-tris(4-methylphenyl)- (CA
INDEX NAME)



RN 957897-27-7 CAPLUS
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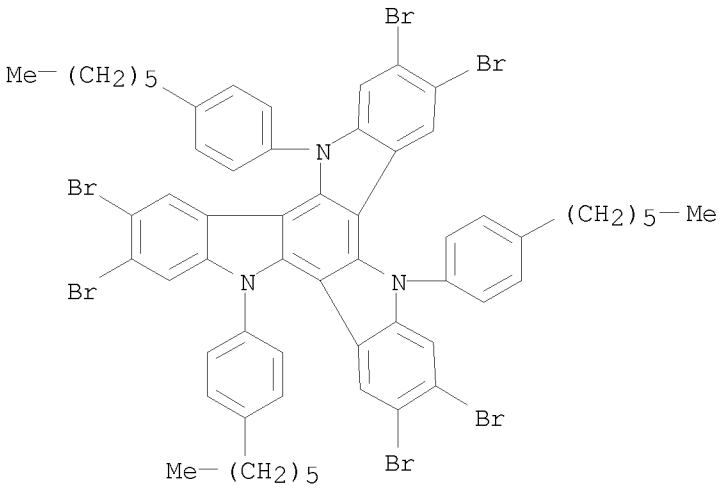

RN 957897-34-6 CAPLUS
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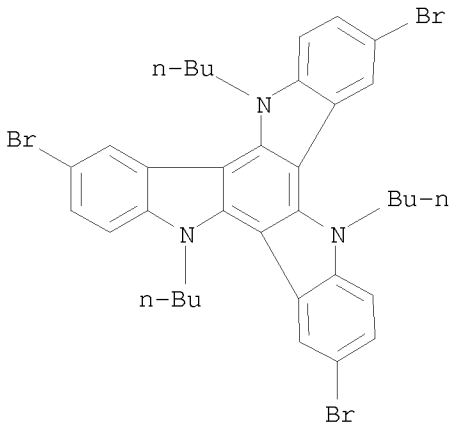

RN 957897-37-9 CAPLUS
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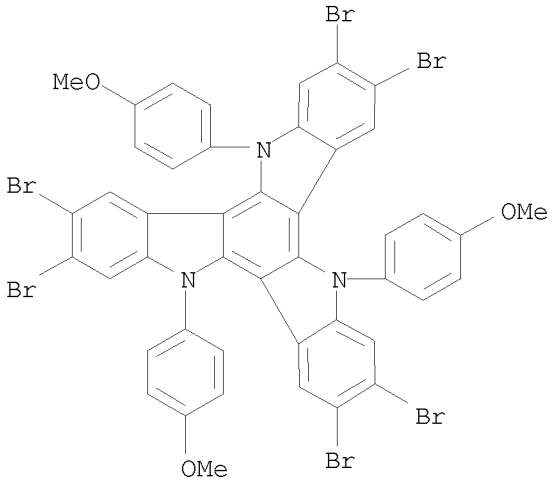

RN 957897-39-1 CAPLUS
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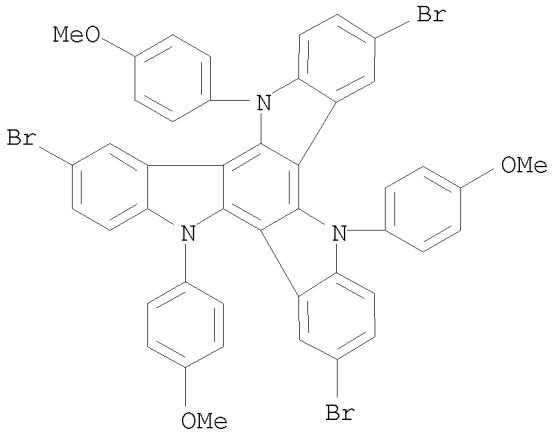

RN 957897-42-6 CAPLUS
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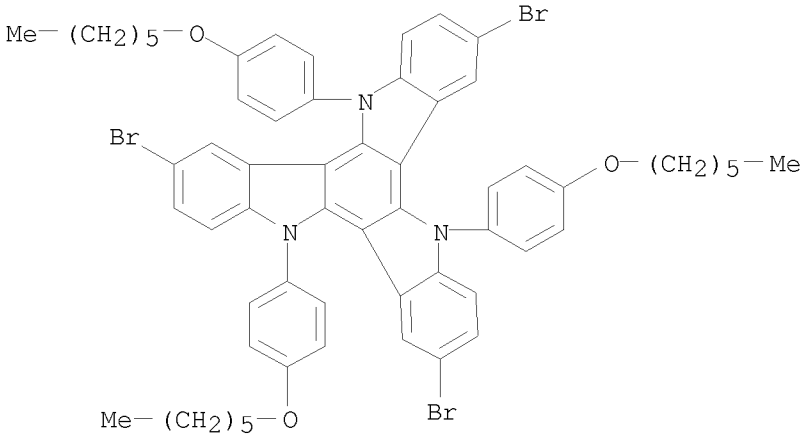
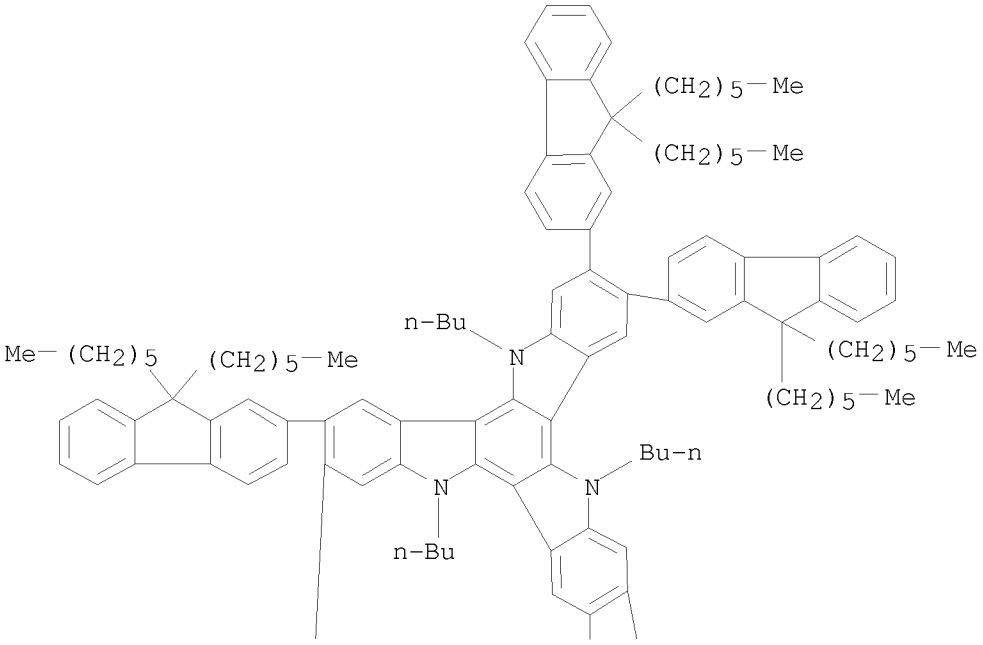
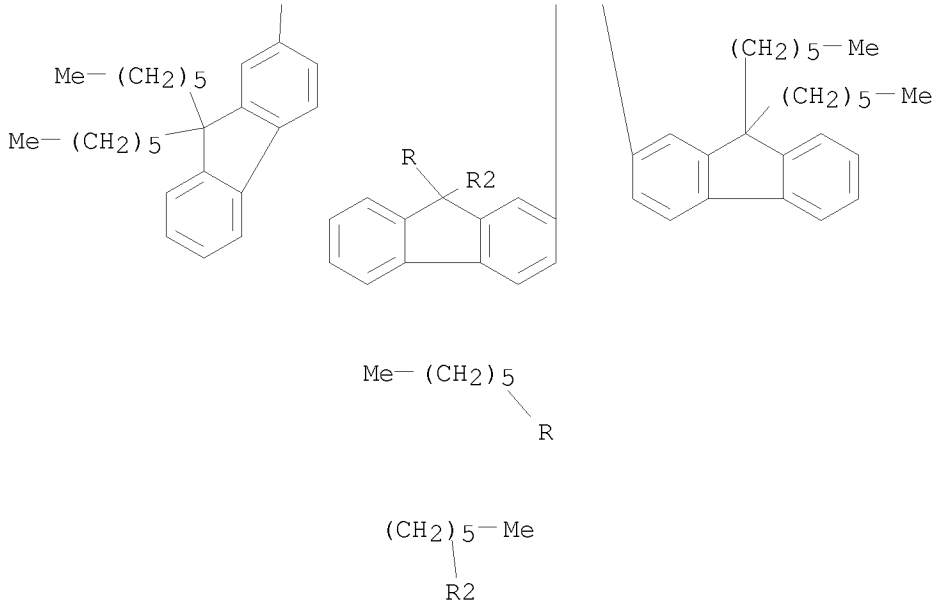


IT 957896-80-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of diindolo[3,2-a:3',2'-c]carbazole branching compds. as function materials)
RN 957896-80-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tributyl-2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro- (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



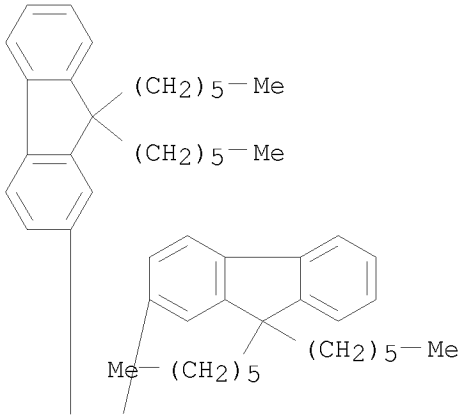
IT 957896-81-0P 957896-84-3P 957896-88-7P
957896-89-8P 957896-92-3P 957896-96-7P
957896-97-8P 957896-98-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of tricarbazole branching compds. as function materials)

RN 957896-81-0 CAPLUS

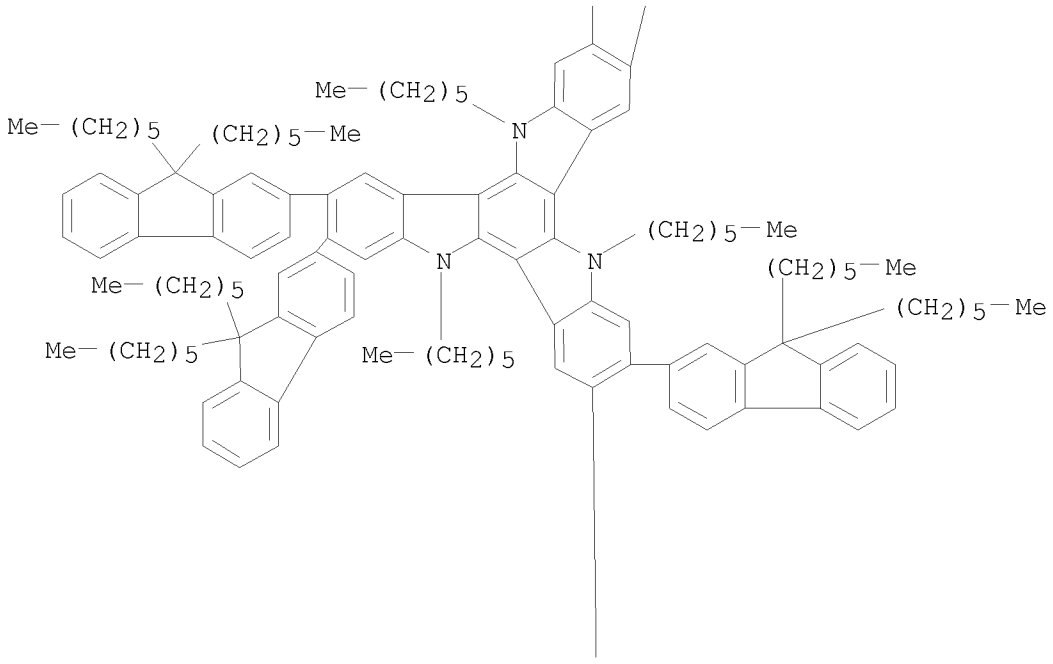
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,

2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

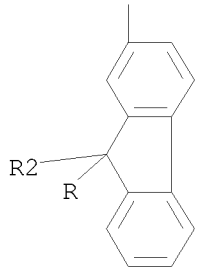
PAGE 1-A

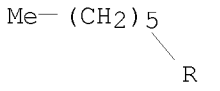


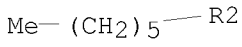
PAGE 2-A



PAGE 3-A

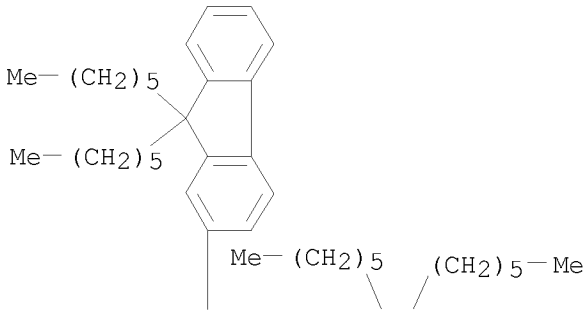






RN 957896-84-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro-5,10,15-triphenyl- (CA INDEX NAME)

PAGE 1-A



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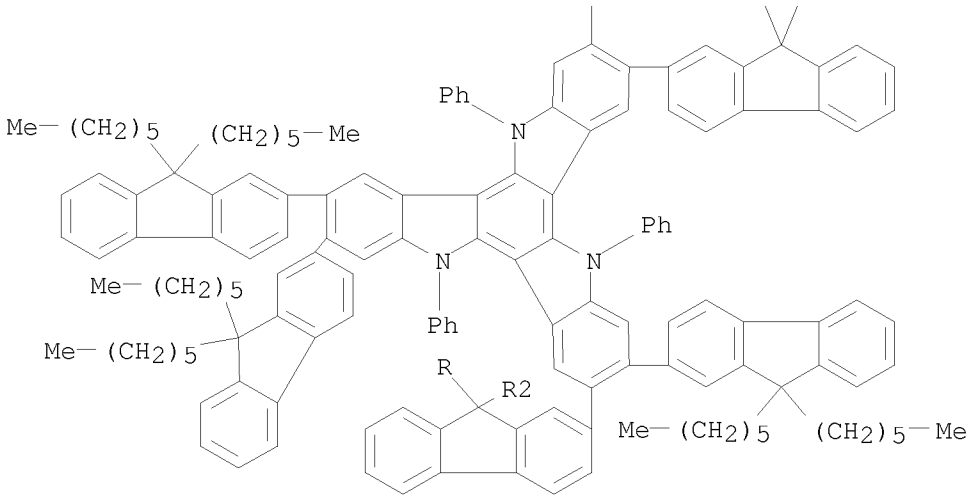

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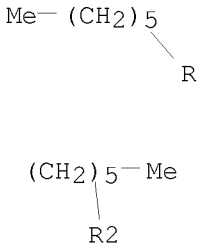

RN 957896-88-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-tris[4-(hexyloxy)phenyl]-10,15-dihydro- (CA INDEX NAME)

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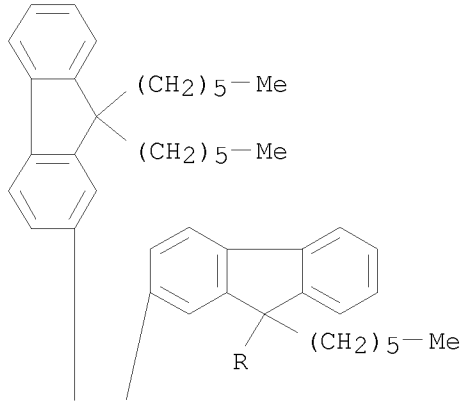
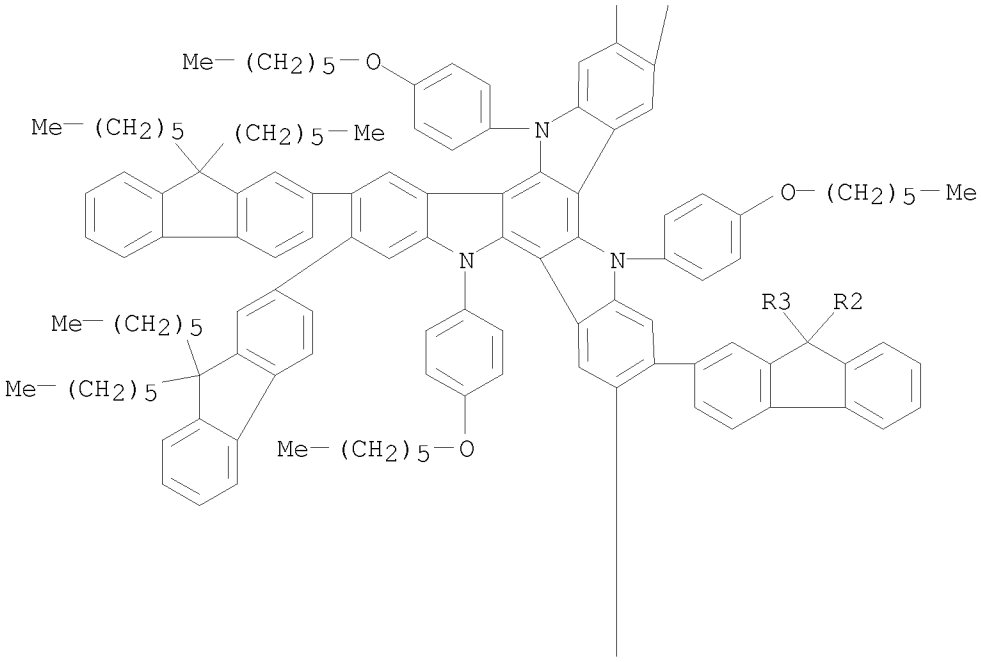
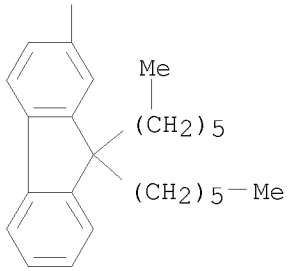
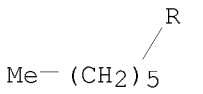


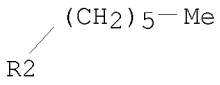
PAGE 2-A



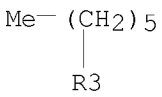
PAGE 3-A





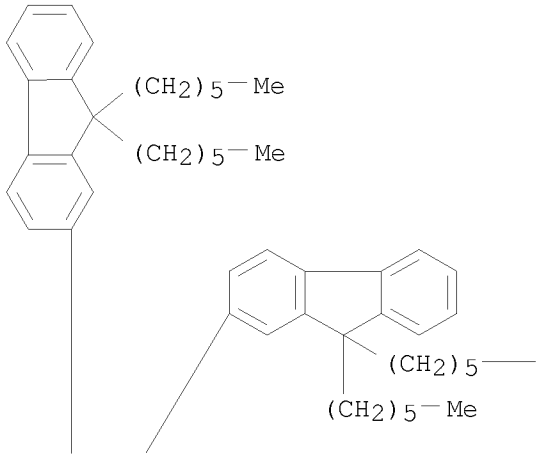


PAGE 4-A



RN 957896-89-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro-5,10,15-tris(4-methylphenyl)- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

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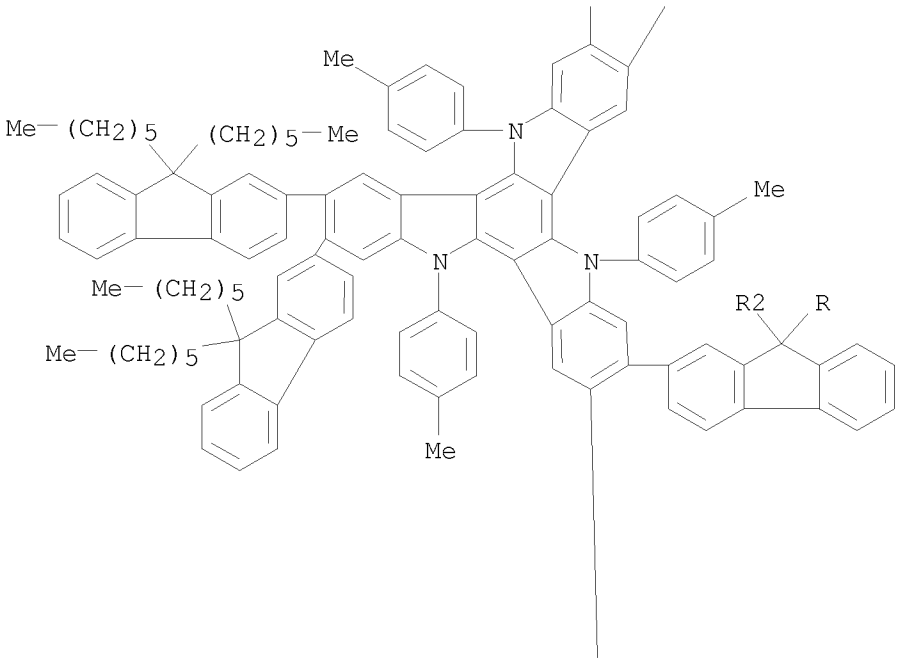
PAGE 2-A



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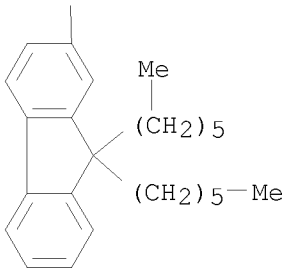
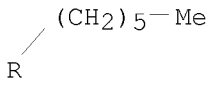
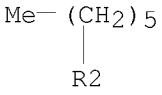
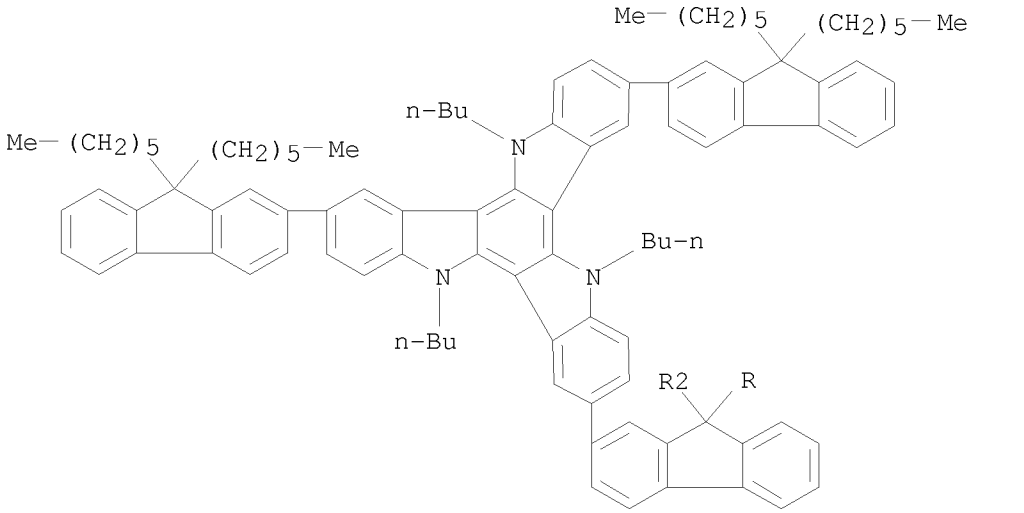






RN 957896-92-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tributyl-3,8,13-tris(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro- (CA INDEX NAME)

PAGE 1-A



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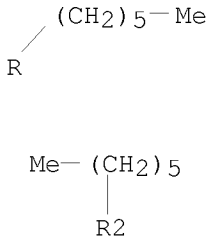
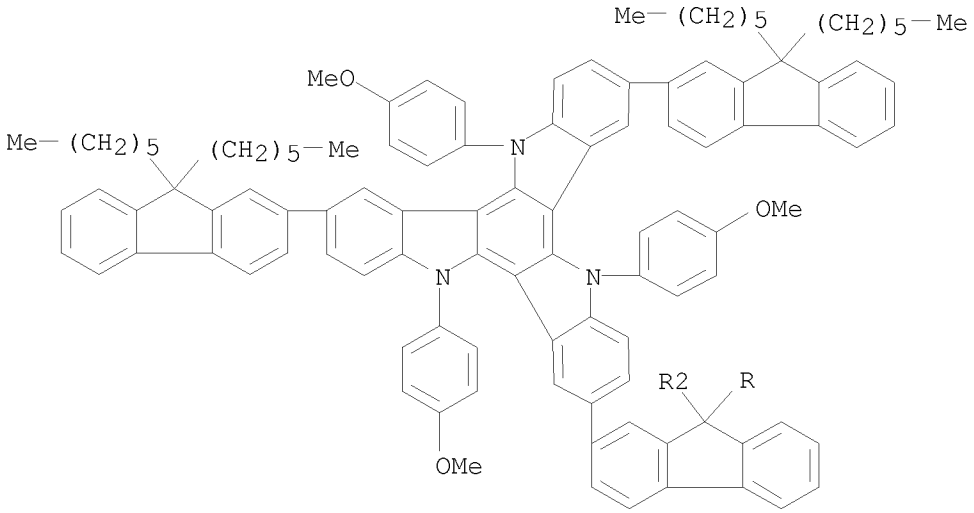


RN 957896-96-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tris(9,9-dihexyl-9H-fluoren-2-yl)-10,15-dihydro-5,10,15-tris(4-methoxyphenyl)- (CA INDEX NAME)

PAGE 1-A



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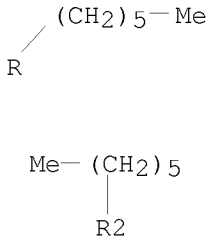
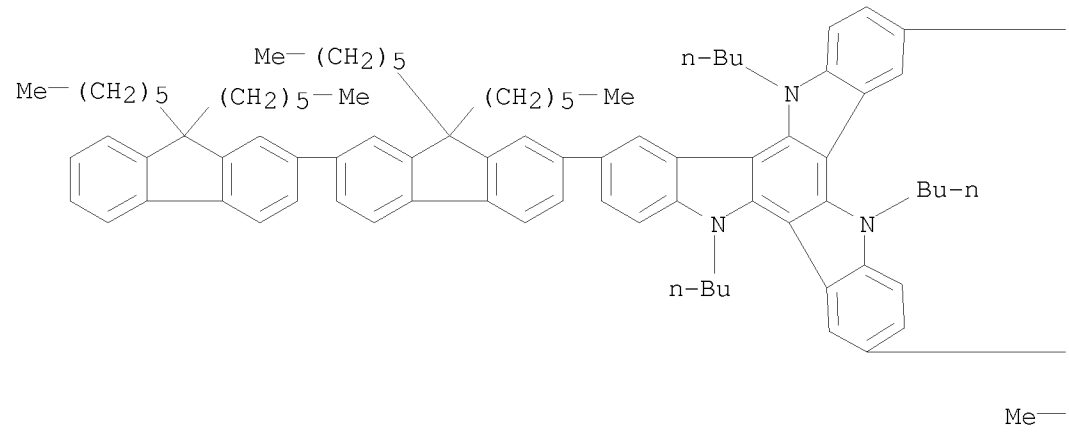


RN 957896-97-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tributyl-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)

PAGE 1-A



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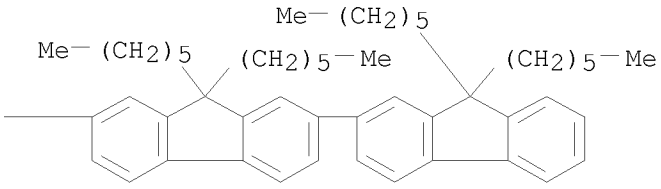
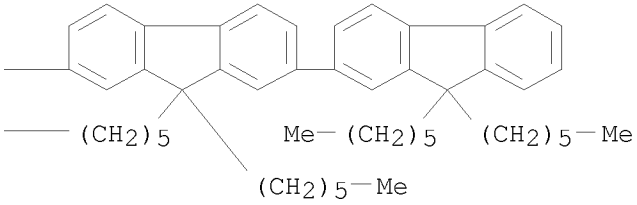
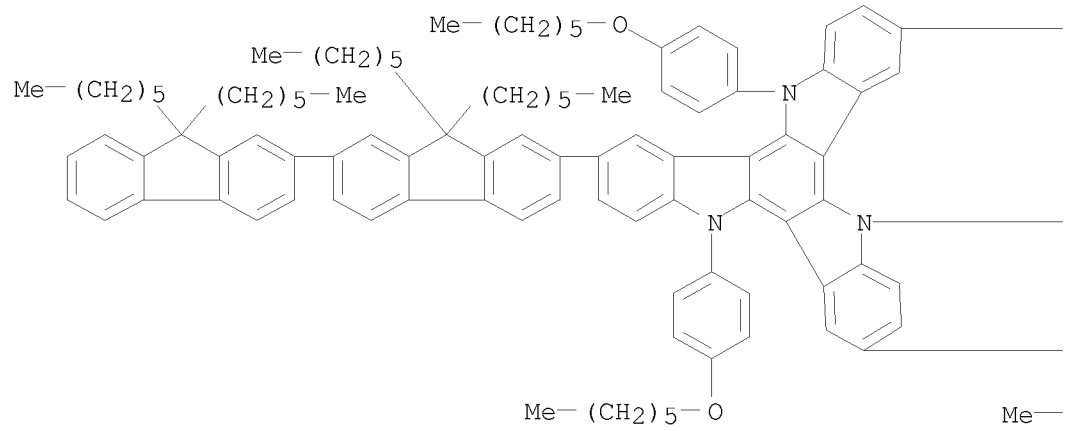


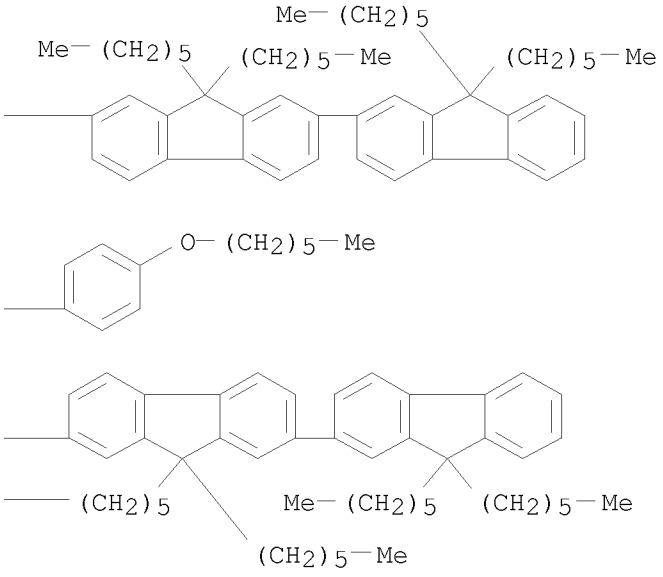


RN 957896-98-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris[4-(hexyloxy)phenyl]-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)

PAGE 1-A



PAGE 1-B

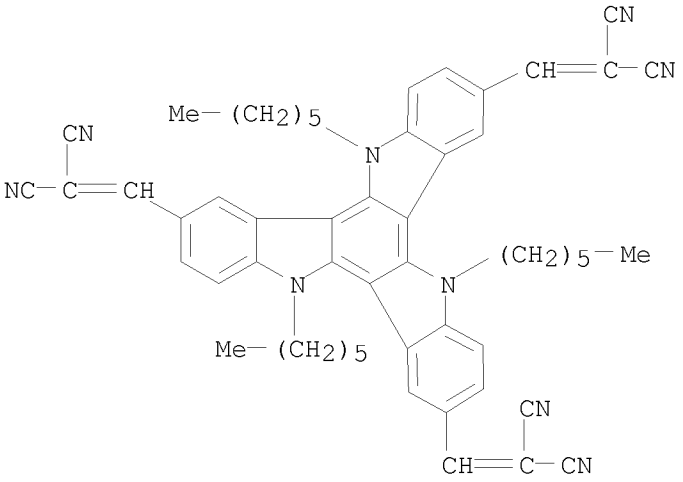


L3 ANSWER 12 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:974830 CAPLUS
DOCUMENT NUMBER: 147:287873
TITLE: Nonlinear optical material
INVENTOR(S): Hiyoshi, Hidetaka; Oi, Hideo; Kumagaya, Hironobu; Wada, Tatsuo; Ikeda, Shigeru
PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 8pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1

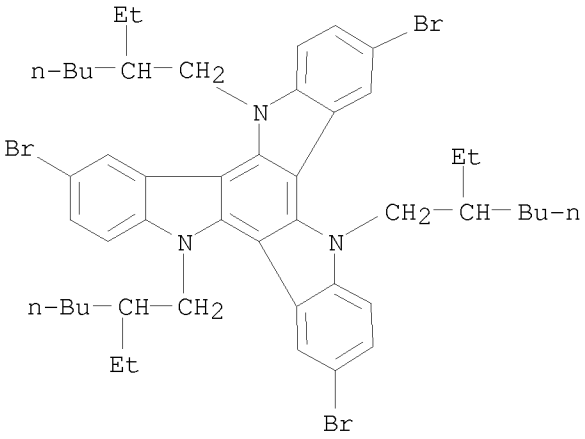
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2007219024	A	20070830	JP 2006-37261	20060214

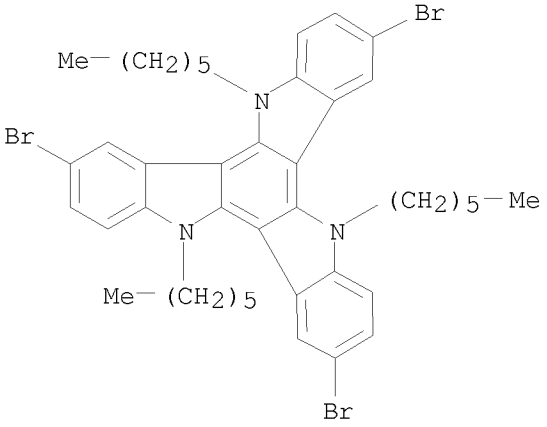
PRIORITY APPLN. INFO.: JP 2006-37261 20060214
OTHER SOURCE(S): MARPAT 147:287873
IT 862856-16-4
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(nonlinear optical material)
RN 862856-16-4 CAPLUS
CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (CA INDEX NAME)



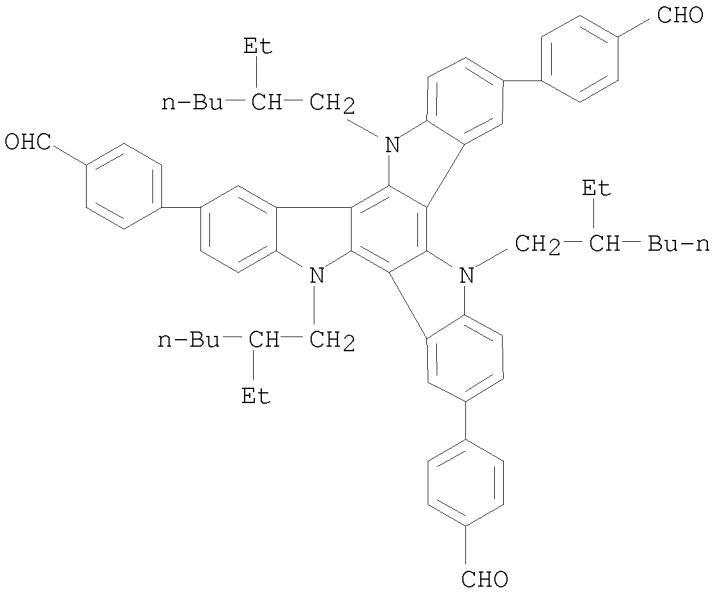
L3 ANSWER 13 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:554057 CAPLUS
DOCUMENT NUMBER: 147:166216
TITLE: Donor-π-acceptor type symmetric cyclic triindoles: synthesis and properties
AUTHOR(S): Hiyoshi, Hidetaka; Kumagai, Hironobu; Ooi, Hideo; Sonoda, Takaaki; Mataka, Shuntaro
CORPORATE SOURCE: Advanced Materials Department, Ihara Chemical Industry Co. Ltd., 2256 Nakanogo, Fujikawa, Ihara, Shizuoka, 412-3306, Japan
SOURCE: Heterocycles (2007), 72, 231-238
CODEN: HTCYAM; ISSN: 0385-5414
PUBLISHER: Japan Institute of Heterocyclic Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 147:166216
IT 862856-20-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of sym. cyclic triindoles by cyclotrimerization of bromoindolinone and Suzuki cross-coupling)
RN 862856-20-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



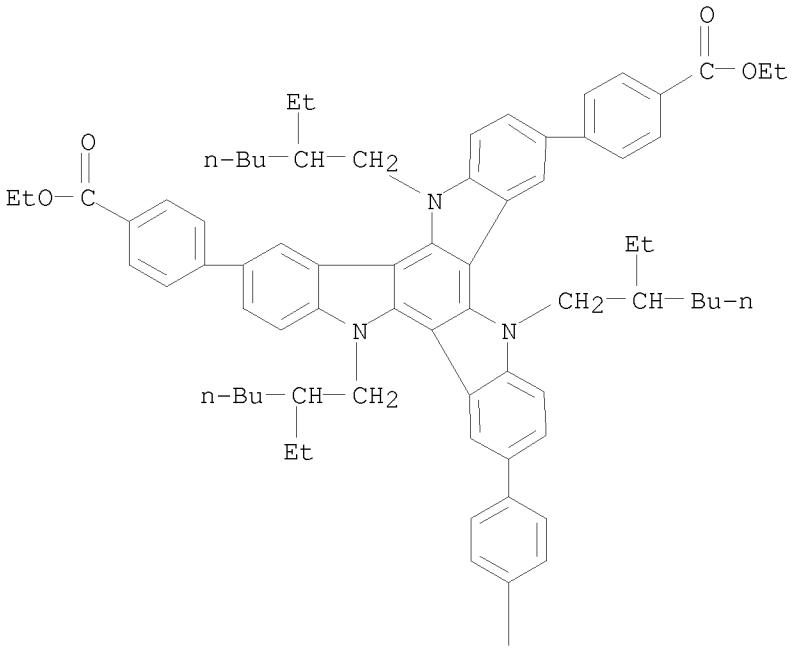
IT 862856-06-2P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of sym. cyclic triindoles by cyclotrimerization of bromoindolinone and Suzuki cross-coupling)
RN 862856-06-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

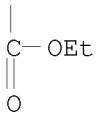


IT 943862-57-5P 943862-58-6P 943862-60-0P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation, oxidation potential, UV fluorescence, and photoluminescence due to intramol. charge transfer)
RN 943862-57-5 CAPLUS
CN Benzaldehyde, 4,4',4''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris- (CA INDEX NAME)

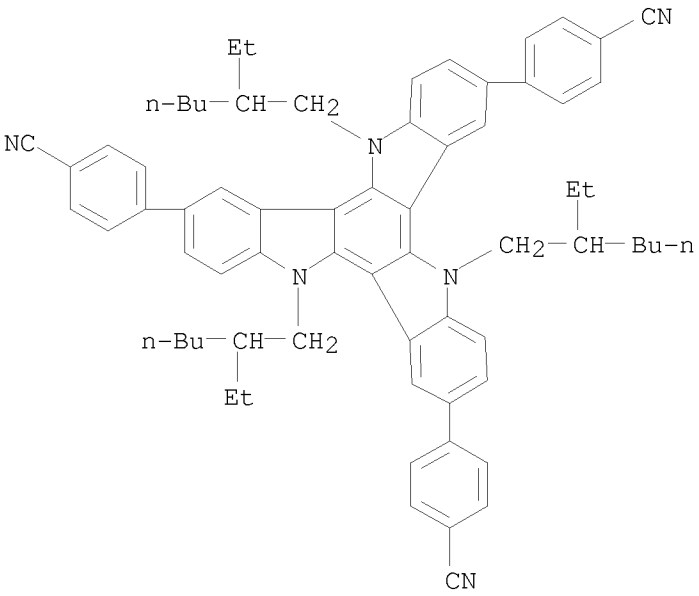


RN 943862-58-6 CAPLUS
CN Benzoic acid, 4,4',4''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris-, 1,1',1''-triethyl ester (CA INDEX NAME)





RN 943862-60-0 CAPLUS
CN Benzonitrile, 4,4',4''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris- (CA INDEX NAME)



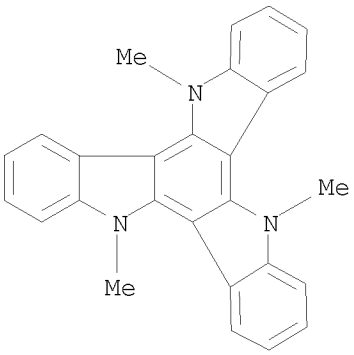
REFERENCE COUNT: 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 14 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:486380 CAPLUS
DOCUMENT NUMBER: 146:470852
TITLE: Method for purification of indole derivative trimer, electrode active substance comprising the purified trimer, method for manufacturing the electrode active substance, and electrochemical cell using the same
INVENTOR(S): Nobuta, Tomoki; Nishiyama, Toshihiko; Takahashi, Naoki; Yoshinari, Tetsuya; Mizukoshi, Takashi
PATENT ASSIGNEE(S): NEC Tokin Corp., Japan
SOURCE: U.S. Pat. Appl. Publ., 11 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20070095656	A1	20070503	US 2006-588375	20061027
JP 2007119386	A	20070517	JP 2005-312571	20051027
CN 1982312	A	20070620	CN 2006-10132015	20061019

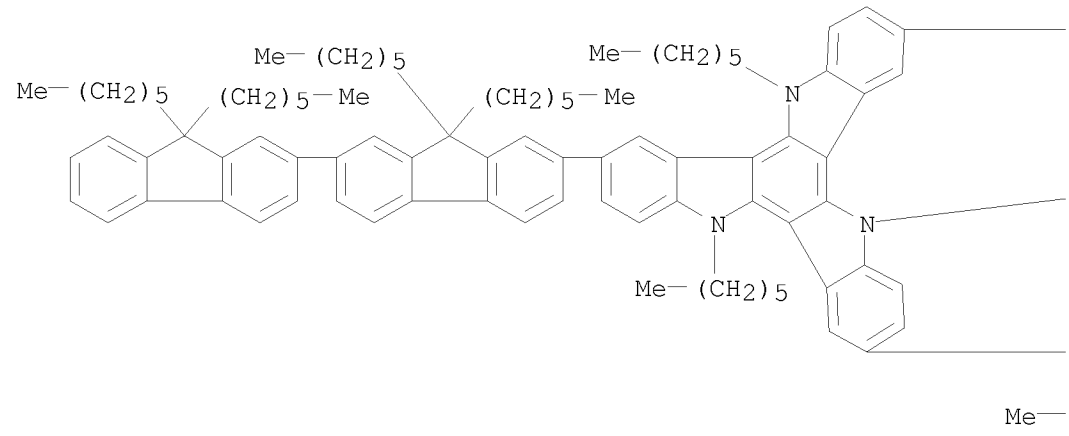
PRIORITY APPLN. INFO.: JP 2005-312571 A 20051027

IT 75833-66-8P
RL: FMU (Formation, unclassified); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); TEM (Technical or engineered material use); FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process); USES (Uses)
(purification of indole derivative trimer for use as, electrode active substance)
RN 75833-66-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



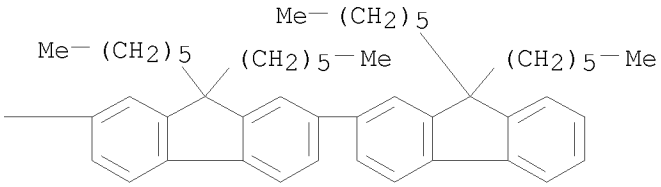
L3 ANSWER 15 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:441233 CAPLUS
DOCUMENT NUMBER: 147:175706
TITLE: Deep-blue light emitting triazatruxene core/oligo-fluorene branch dendrimers for electroluminescence and optical gain applications
AUTHOR(S): Levermore, P. A.; Xia, R.; Lai, W.; Wang, X. H.; Huang, W.; Bradley, D. D. C.
CORPORATE SOURCE: Experimental Solid State Physics Group, Department of Physics, Imperial College London, London, SW7 2AZ, UK
SOURCE: Journal of Physics D: Applied Physics (2007), 40(7), 1896-1901
CODEN: JPAPBE; ISSN: 0022-3727
PUBLISHER: Institute of Physics Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 943967-38-2
RL: PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(pristine and as polymer blend with F8BT; deep-blue light emitting triazatruxene core/oligo-fluorene branch dendrimers for electroluminescence and optical gain applications)
RN 943967-38-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-3,8,13-tris(9,9,9',9'-tetrahexyl[2,2'-bi-9H-fluoren]-7-yl)- (CA INDEX NAME)

PAGE 1-A



Me—

PAGE 1-B



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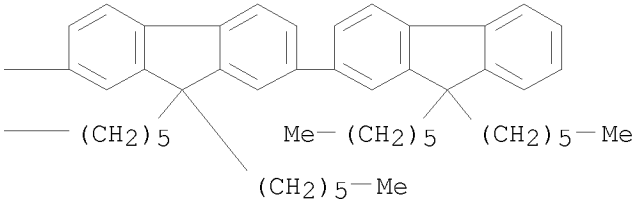


REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 16 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:143971 CAPLUS
DOCUMENT NUMBER: 146:206315
TITLE: Preparation of oxadiazole-substituted Sym-triindole derivatives as organic electroluminescent devices
INVENTOR(S): Hiyoshi, Hidetaka; Wada, Tatsuo; Aoyama, Tetsuya
PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 64pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2007015414	A1	20070208	WO 2006-JP314861	20060727

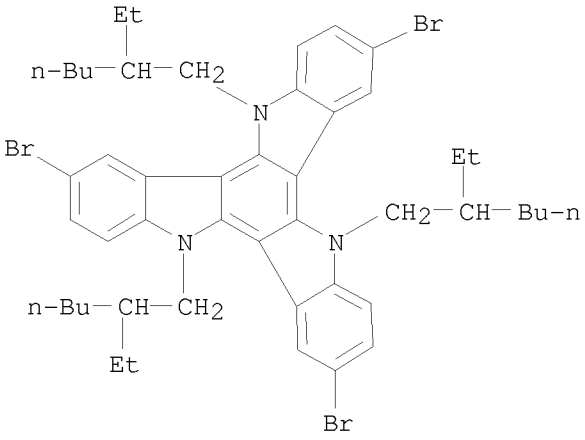
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HN, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LA, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RS, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, ZA, ZM, ZW

RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

PRIORITY APPLN. INFO.: JP 2005-223152 A 20050801
OTHER SOURCE(S): MARPAT 146:206315

IT 862856-20-0
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of oxadiazole-substituted Sym-triindole derivs. as organic electroluminescent devices)

RN 862856-20-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



IT 923060-32-6P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of oxadiazole-substituted Sym-triindole derivs. as organic electroluminescent devices)

RN 923060-32-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tris[4-[5-[4-(1,1-dimethylethyl)phenyl]-1,3,4-oxadiazol-2-yl]phenyl]-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)

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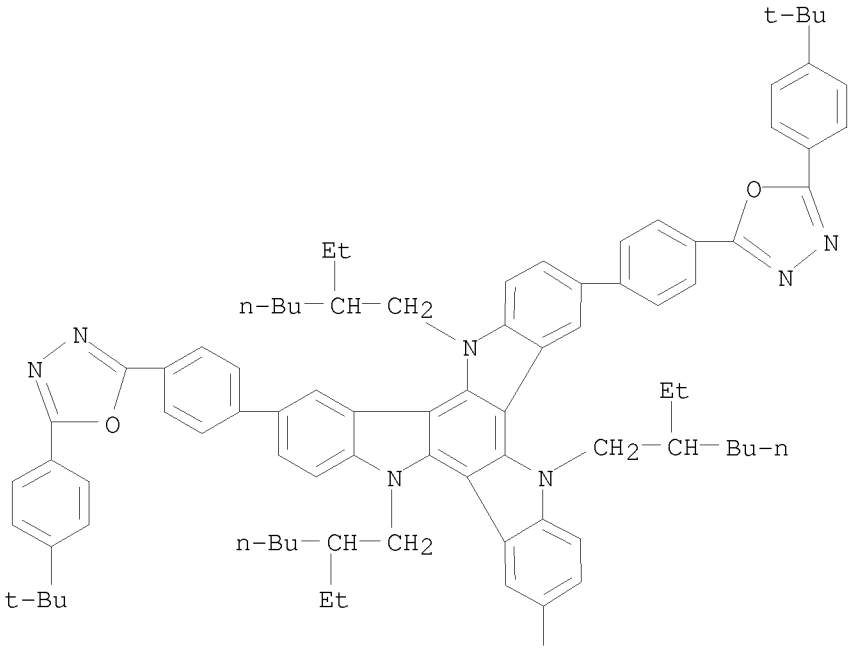

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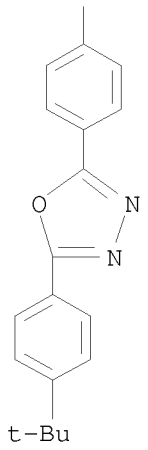

REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 17 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2007:71686 CAPLUS
DOCUMENT NUMBER: 146:346308
TITLE: Structure, stability and spectroscopic properties of isomers of C48B6N6 heterofullerene with isolated and sequential BN substitutional patterns
AUTHOR(S): Emanuele, Emanuela; Negri, Fabrizia; Orlandi, Giorgio
CORPORATE SOURCE: Dipartimento di Chimica G. Ciamician, Universita di Bologna, Bologna, 40126, Italy
SOURCE: Inorganica Chimica Acta (2007), 360(3), 1052-1062

CODEN: ICHAA3; ISSN: 0020-1693
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 929199-96-2 929199-98-4 929199-99-5
929200-00-0
RL: PRP (Properties)
(structure, stability and spectroscopic properties of isomers of C48B6N6 heterofullerene with isolated and sequential BN substitutional patterns)
RN 929199-96-2 CAPLUS
CN 1,16,30,40,44,60-Hexaaza-9,17,21,31,45,52-hexabora[5,6]fullerene-C60-Ih (CA INDEX NAME)

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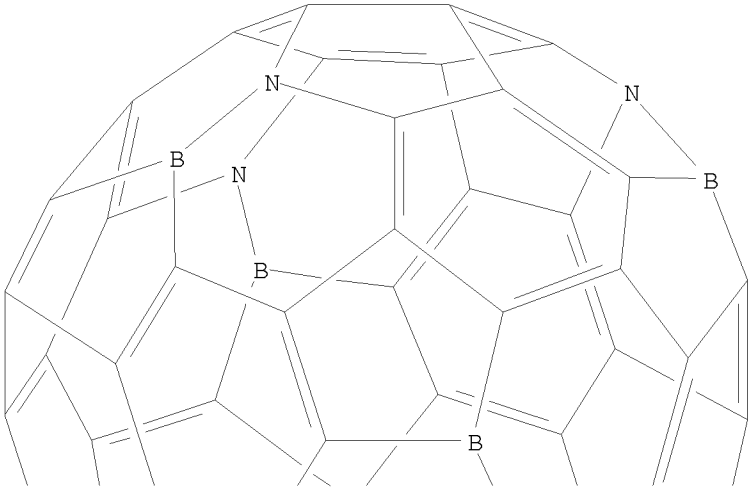

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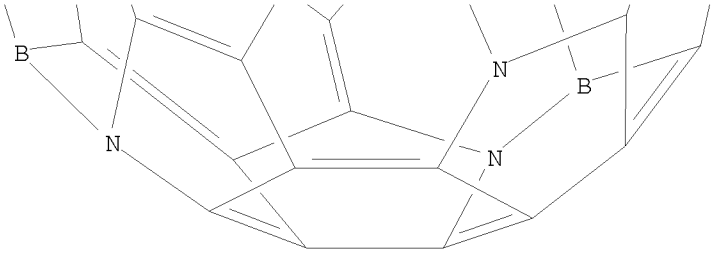

RN 929199-98-4 CAPLUS
CN 1,16,30,40,44,52-Hexaaza-9,17,21,31,45,60-hexabora[5,6]fullerene-C60-Ih (CA INDEX NAME)

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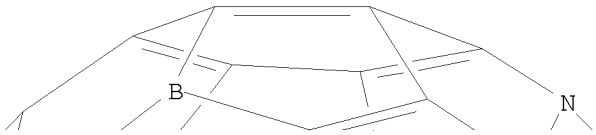

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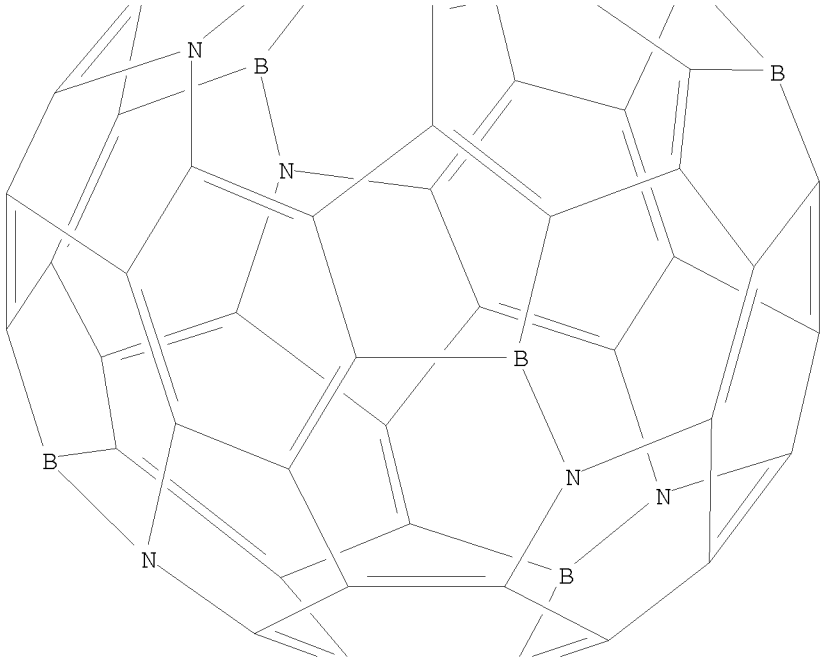

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RN 929199-99-5 CAPLUS
CN 1,16,31,40,44,52-Hexaaza-9,17,21,30,45,60-hexabora[5,6]fullerene-C60-Ih
(CA INDEX NAME)

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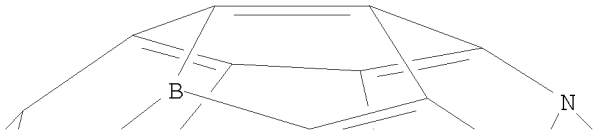

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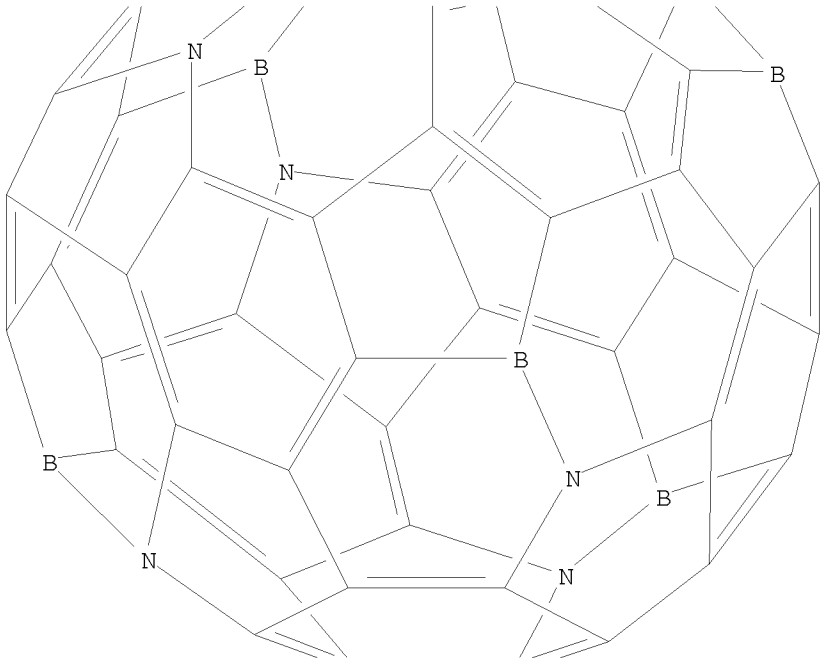
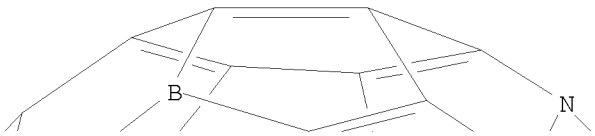


RN 929200-00-0 CAPLUS
CN 1,16,21,30,45,52-Hexaaza-9,17,31,40,44,60-hexabora[5,6]fullerene-C60-Ih
(CA INDEX NAME)



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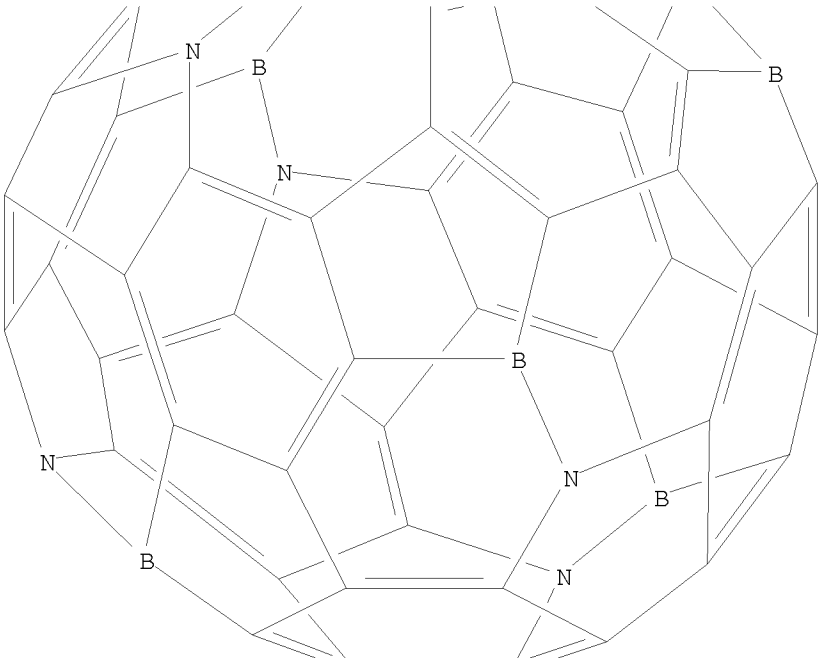

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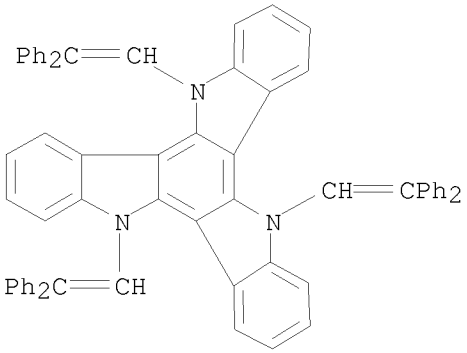
REFERENCE COUNT: 43 THERE ARE 43 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 18 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1311391 CAPLUS
DOCUMENT NUMBER: 146:53595
TITLE: Organic electroluminescent devices
INVENTOR(S): Nakagawa, Masatoshi; Enomoto, Kazuhiro
PATENT ASSIGNEE(S): Sharp Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 38pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006339319	A	20061214	JP 2005-160707	20050531

PRIORITY APPLN. INFO.: JP 2005-160707 20050531
IT 916595-73-8 916595-74-9 916595-75-0
916595-76-1 916595-77-2 916595-78-3
916595-79-4 916595-80-7
RL: TEM (Technical or engineered material use); USES (Uses)
(organic EL devices containing organic hole-transport layers containing tri-indole
derivs.)
RN 916595-73-8 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
5,10,15-tris(2,2-diphenylethenyl)-10,15-dihydro- (CA INDEX NAME)



RN 916595-74-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
5,10,15-tris[2,2-bis(4-methoxyphenyl)ethenyl]-10,15-dihydro- (CA INDEX NAME)

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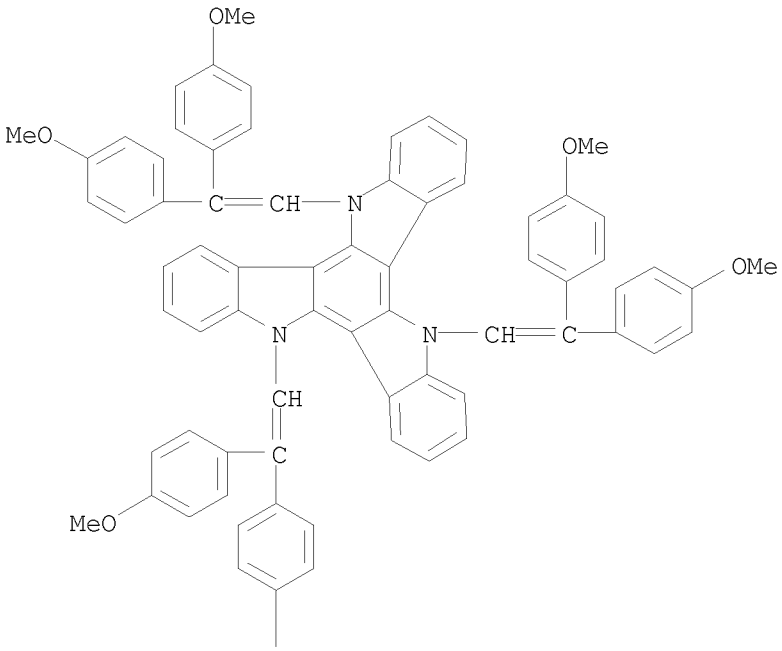

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RN 916595-75-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
5,10,15-tris[2,2-bis([1,1'-biphenyl]-4-yl)ethenyl]-10,15-dihydro- (CA

INDEX NAME)

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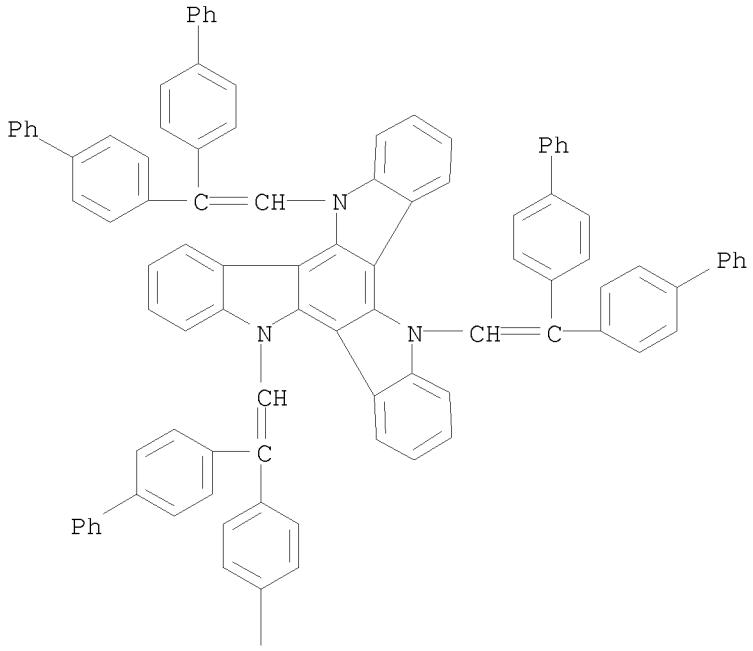

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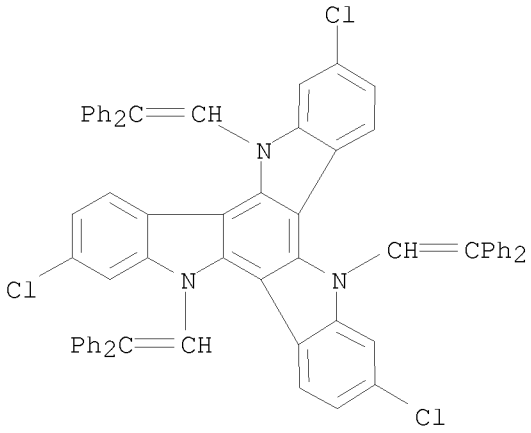
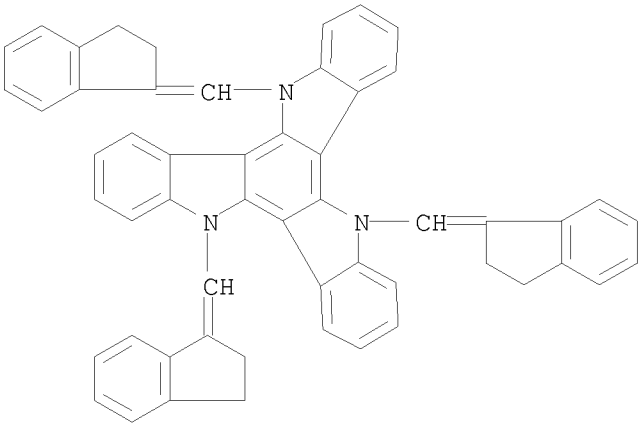
RN 916595-76-1 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,7,12-trichloro-5,10,15-tris(2,2-diphenylethenyl)-10,15-dihydro- (CA INDEX NAME)

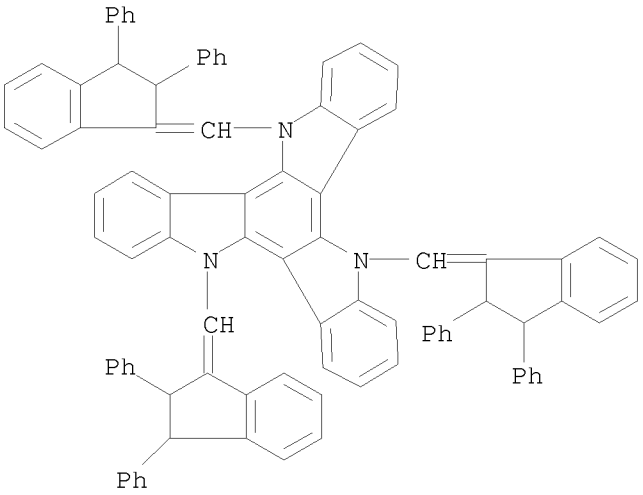


RN 916595-77-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,

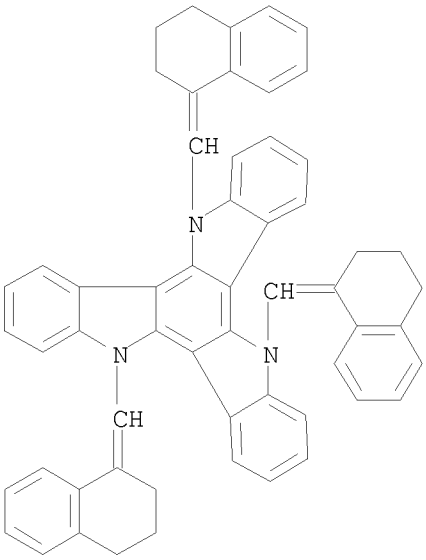
5,10,15-tris[(2,3-dihydro-1H-inden-1-ylidene)methyl]-10,15-dihydro- (CA INDEX NAME)



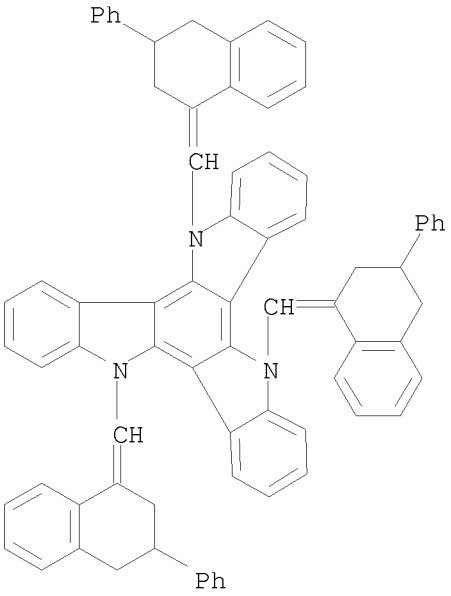
RN 916595-78-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris[(2,3-dihydro-2,3-diphenyl-1H-inden-1-ylidene)methyl]-10,15-dihydro- (CA INDEX NAME)



RN 916595-79-4 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris[(3,4-dihydro-1(2H)-naphthalenylidene)methyl]-10,15-dihydro- (CA INDEX NAME)



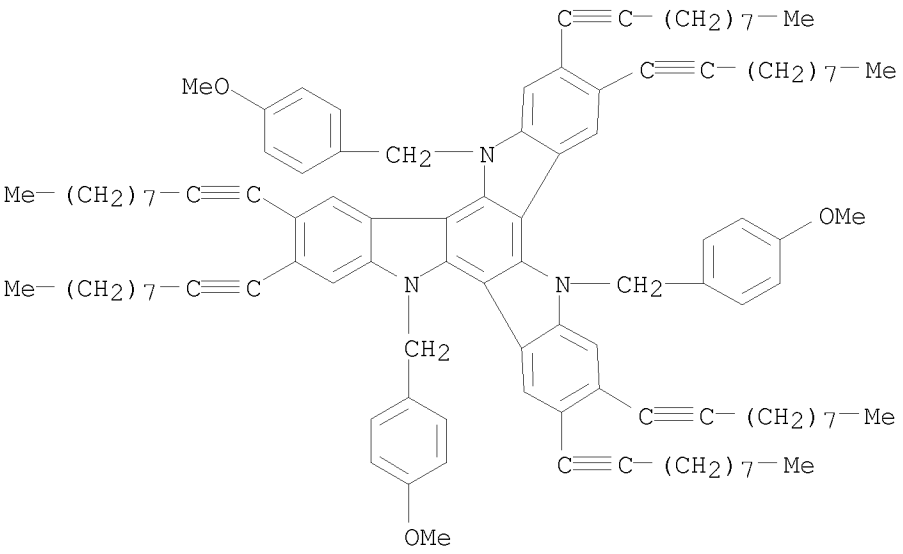
RN 916595-80-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris[(3,4-dihydro-3-phenyl-1(2H)-naphthalenylidene)methyl]-10,15-dihydro- (CA INDEX NAME)



L3 ANSWER 19 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:1293087 CAPLUS
DOCUMENT NUMBER: 146:217110
TITLE: Electroactive C3 symmetric discotic liquid-crystalline triindoles
AUTHOR(S): Gomez-Lor, Berta; Alonso, Beatriz; Omenat, Ana; Serrano, Jose Luis
CORPORATE SOURCE: Instituto de Ciencias de Materiales de Madrid, CSIC, Madrid, Cantoblanco, 28049, Spain

SOURCE: Chemical Communications (Cambridge, United Kingdom) (2006), (48), 5012-5014
CODEN: CHCOFS; ISSN: 1359-7345
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 146:217110

IT 922719-59-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(a ppheprepn. and alkylation of)
RN 922719-59-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexa-1-decyn-1-yl-10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



IT 922719-57-1P 922719-58-2P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of)
RN 922719-57-1 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]-2,3,7,8,12,13-hexakis[2-(4-methylphenyl)ethynyl]- (CA INDEX NAME)

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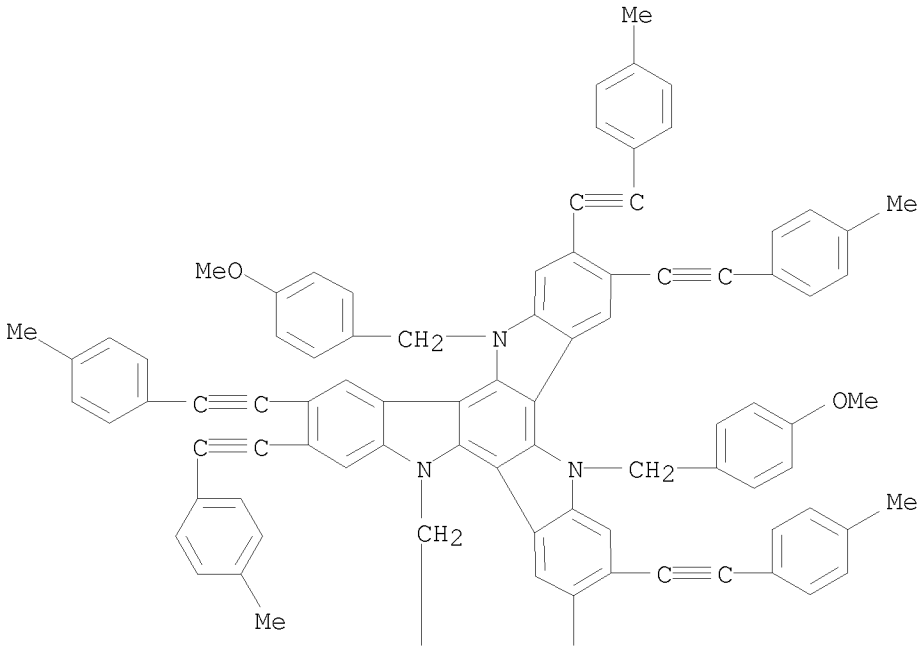

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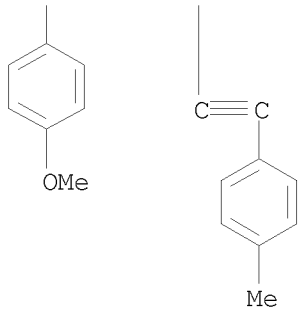

RN 922719-58-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]-2,3,7,8,12,13-hexakis[2-(4-pentylphenyl)ethynyl]- (CA INDEX NAME)

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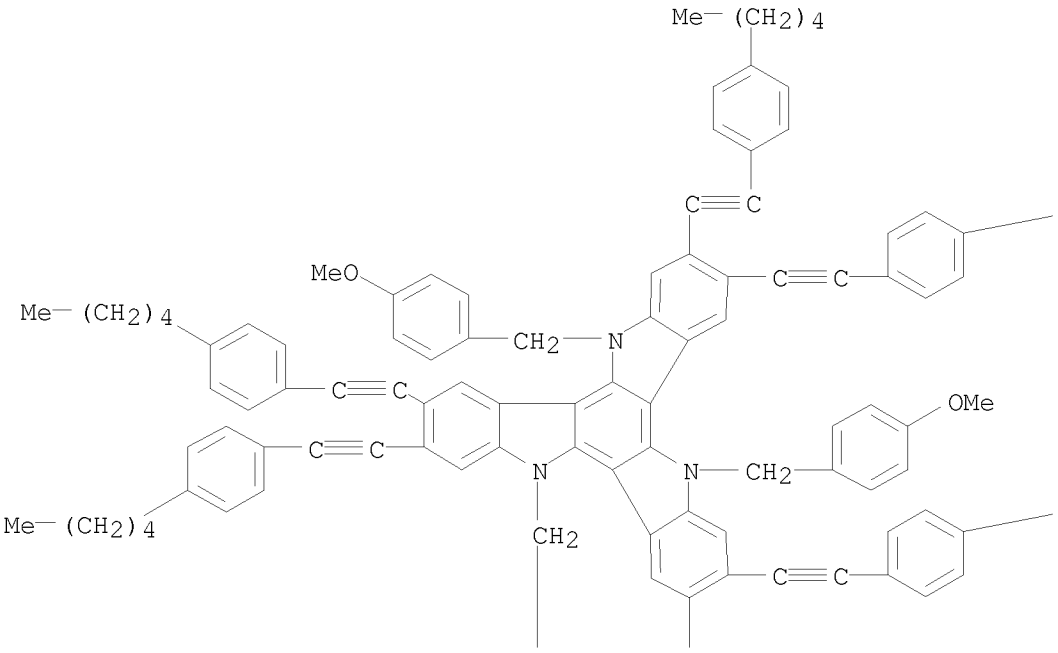
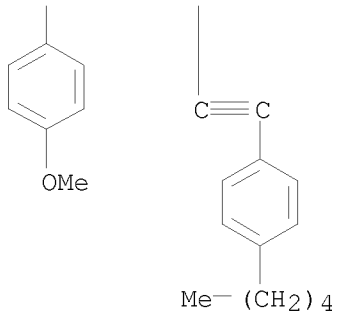


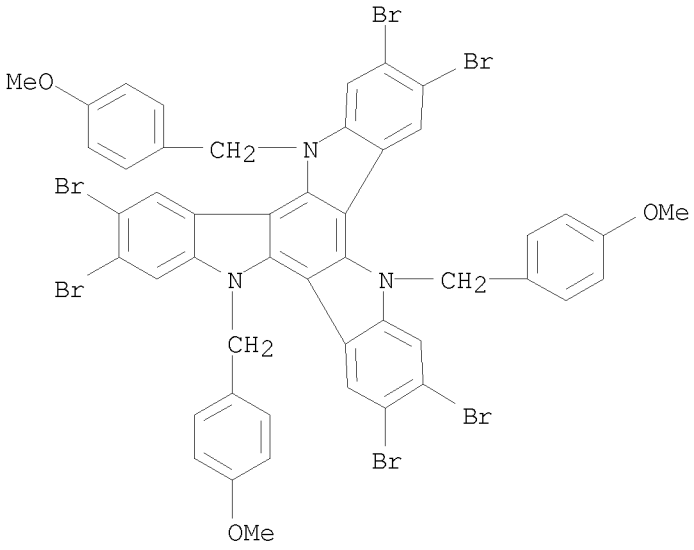
PAGE 1-B

— (CH2) 4 — Me

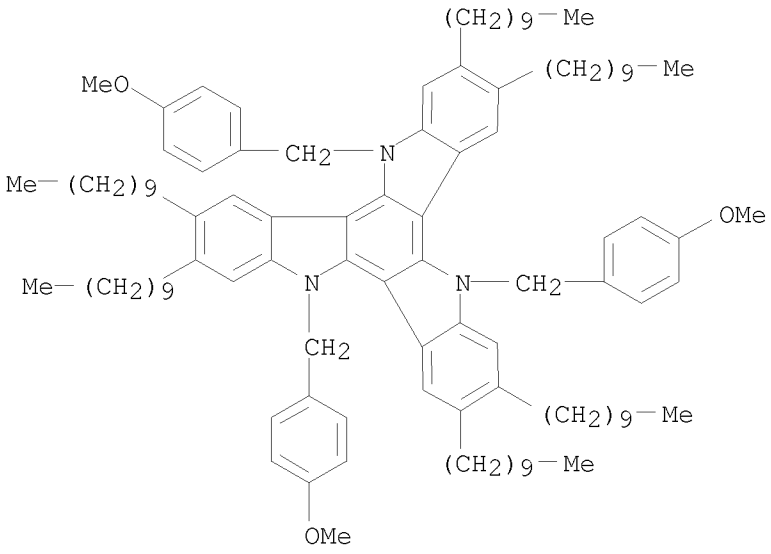
— (CH2) 4 — Me



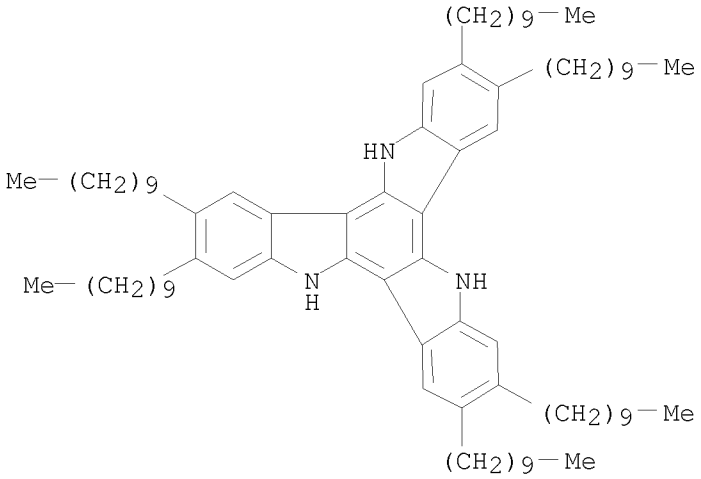
IT 922719-56-0P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and cross-coupling with tolylacetylene)
RN 922719-56-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



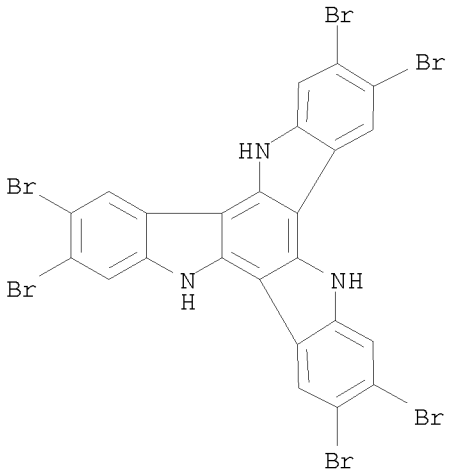
IT 922719-60-6P 922719-61-7P
RL: PEP (Physical, engineering or chemical process); PRP (Properties); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(preparation and liquid crystal properties of)
RN 922719-60-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro-5,10,15-tris[(4-methoxyphenyl)methyl]- (CA INDEX NAME)



RN 922719-61-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexakis(decyl)-10,15-dihydro- (CA INDEX NAME)



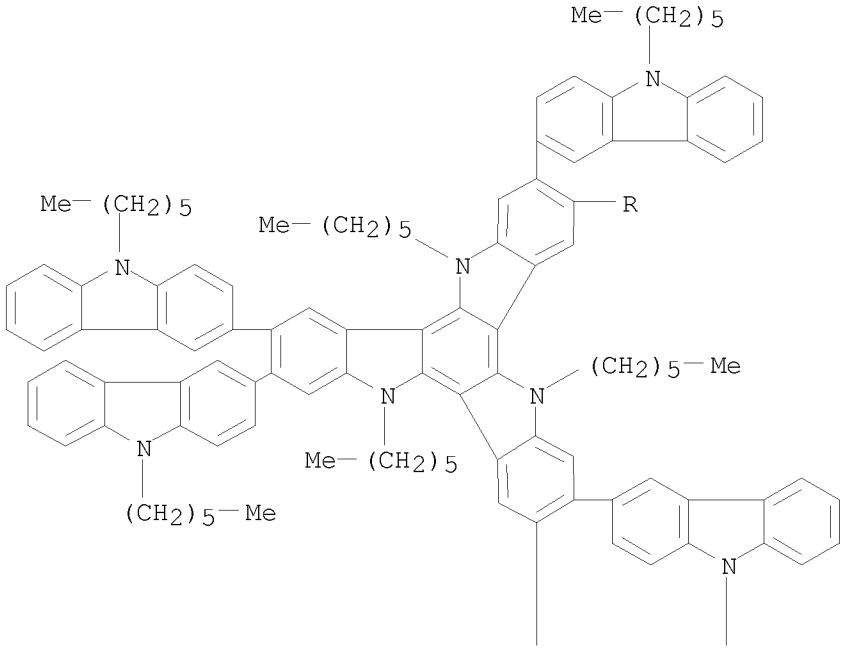
IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation of electroactive C3 sym. discotic liquid-crystalline triindoles)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



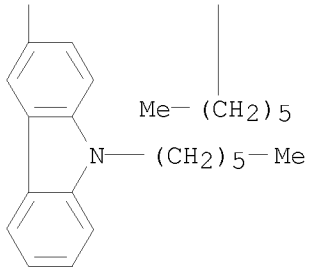
REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

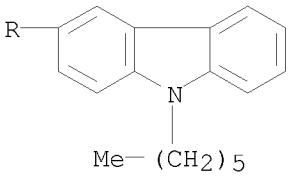
L3 ANSWER 20 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:874225 CAPLUS
DOCUMENT NUMBER: 145:454991
TITLE: Synthesis of novel star-shaped carbazole-functionalized triazatruxenes
AUTHOR(S): Feng, Guo-Liang; Lai, Wen-Yong; Ji, Shun-Jun; Huang, Wei
CORPORATE SOURCE: Key Laboratory of Organic Synthesis of Jiangsu Province, College of Chemistry and Chemical Engineering, Suzhou Industrial Park, Soochow University, Suzhou, 215123, Peop. Rep. China
SOURCE: Tetrahedron Letters (2006), 47(39), 7089-7092
CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER: Elsevier Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:454991
IT 913473-32-2P 913473-33-3P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(synthesis of novel star-shaped carbazole-functionalized triazatruxenes)
RN 913473-32-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-2,3,7,8,12,13-hexakis(9-hexyl-9H-carbazol-3-yl)- (9CI) (CA INDEX NAME)

PAGE 1-A



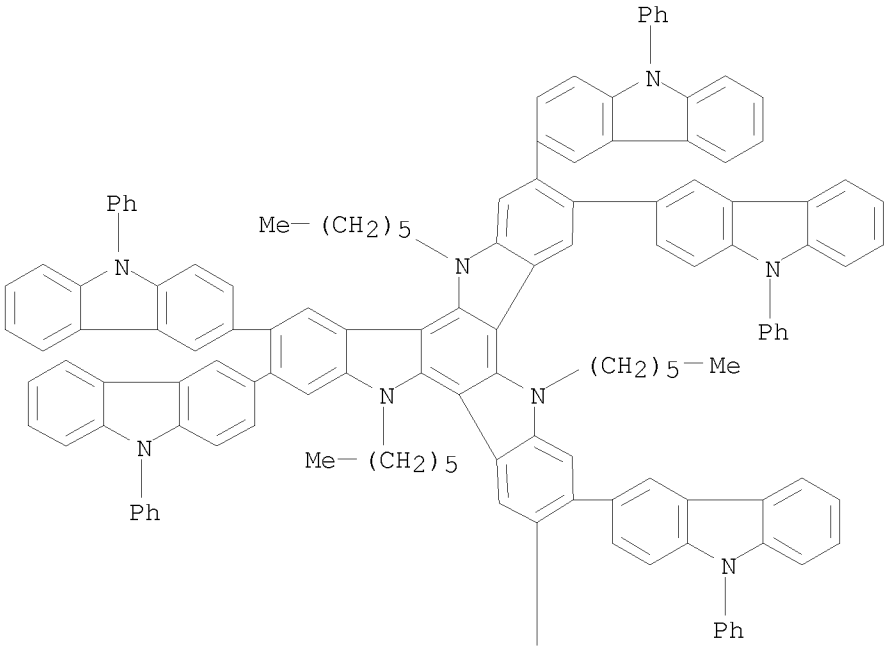
PAGE 2-A



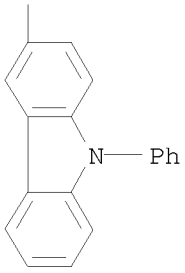


RN 913473-33-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-2,3,7,8,12,13-hexakis(9-phenyl-9H-carbazol-3-yl)- (9CI) (CA INDEX NAME)

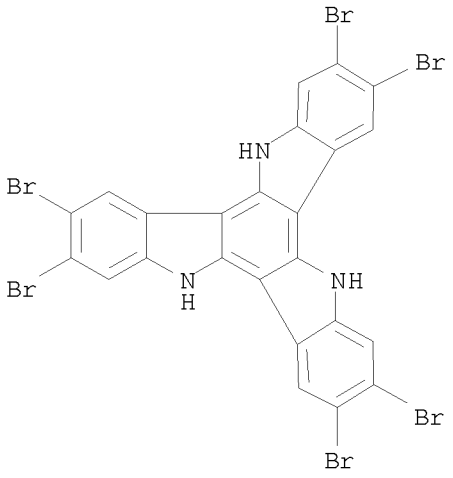
PAGE 1-A



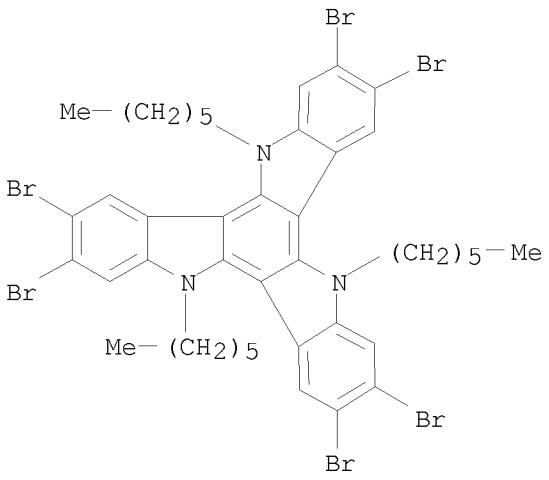
PAGE 2-A



IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of novel star-shaped carbazole-functionalized triazatruxenes)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 894357-86-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of novel star-shaped carbazole-functionalized triazatruxenes)
RN 894357-86-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



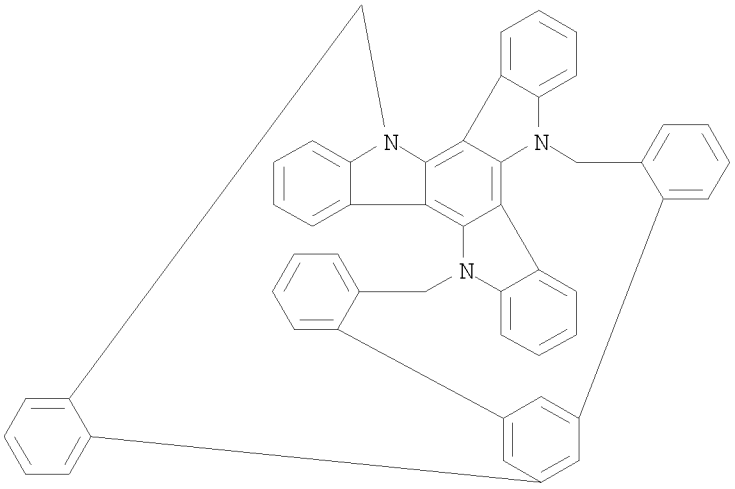
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 21 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:720079 CAPLUS
DOCUMENT NUMBER: 145:314969
TITLE: A redox-active C3-symmetric triindole-based triazacyclophane
AUTHOR(S): Gomez-Lor, Berta; Hennrich, Gunther; Alonso, Beatriz; Monge, Angeles; Gutierrez-Puebla, Enrique; Echavarren, Antonio M.
CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, Madrid, 20849, Spain

SOURCE: Angewandte Chemie, International Edition (2006), 45(27), 4491-4494
CODEN: ACIEF5; ISSN: 1433-7851
PUBLISHER: Wiley-VCH Verlag GmbH & Co. KGaA
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 145:314969

IT 909416-21-3P 909416-24-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and structure of a redox-active C3-sym. triindole-based triazacyclophane)

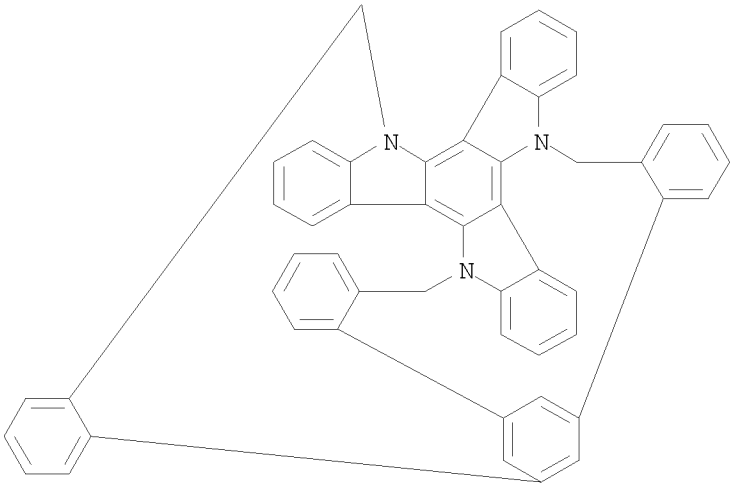
RN 909416-21-3 CAPLUS
CN 12H,26H-19,5-([1,2]Benzenomethano)-17,21-metheno-6,11,32-methynotribenzo[6,7:10,11:17,18][1,8]diazacyclononadecino[1,2-a:4,3-b']diindole (9CI) (CA INDEX NAME)



RN 909416-24-6 CAPLUS
CN 12H,26H-19,5-([1,2]Benzenomethano)-17,21-metheno-6,11,32-methynotribenzo[6,7:10,11:17,18][1,8]diazacyclononadecino[1,2-a:4,3-b']diindole, radical ion(1+), salt with trifluoroacetic acid, compd. with 12H,26H-19,5-([1,2]Benzenomethano)-17,21-metheno-6,11,32-methynotribenzo[6,7:10,11:17,18][1,8]diazacyclononadecino[1,2-a:4,3-b']diindole (1:1:1), mono(trifluoroacetate) (9CI) (CA INDEX NAME)

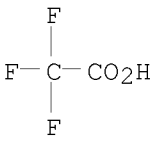
CM 1

CRN 909416-21-3
CMF C51 H33 N3



CM 2

CRN 76-05-1
CMF C2 H F3 O2

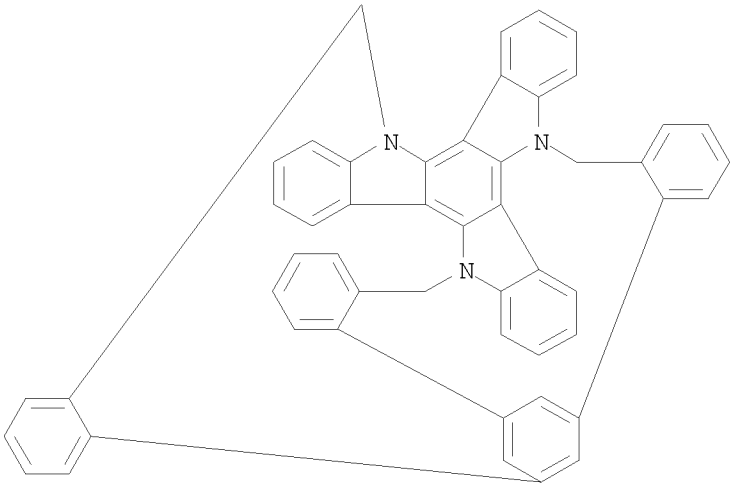


CM 3

CRN 909416-23-5
CMF C51 H33 N3 . C2 F3 O2

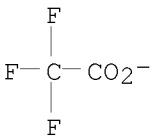
CM 4

CRN 909416-22-4
CMF C51 H33 N3
CCI RIS

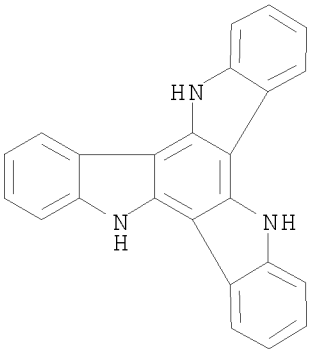


CM 5

CRN 14477-72-6
CMF C2 F3 O2



IT 109005-10-9, 10,15-Dihydro-5H-5,10,15-triazaindeno[1,2-a;1',2'-c]fluorene
RL: RCT (Reactant); RACT (Reactant or reagent)
(preparation and structure of a redox-active C3-sym. triindole-based triazacyclophane)
RN 109005-10-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



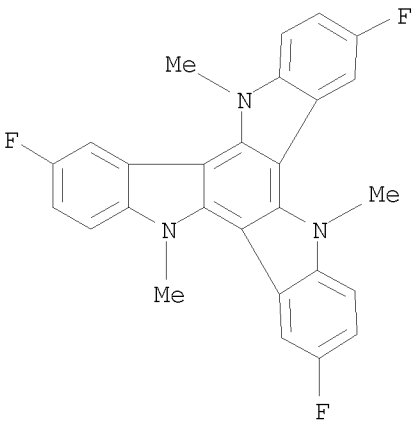
REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 22 OF 62 CAPLUS

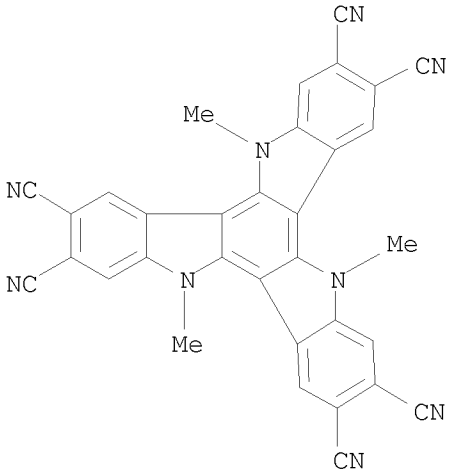
ACCESSION NUMBER: 2006:493706 CAPLUS
DOCUMENT NUMBER: 144:498402
TITLE: Organic carrier transport material for organic electroluminescent display showing extended service life and improved light efficiency
INVENTOR(S): Onishima, Yasunori; Matsunami, Shigeyuki
PATENT ASSIGNEE(S): Sony Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 42 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006135146	A	20060525	JP 2004-323435	20041108

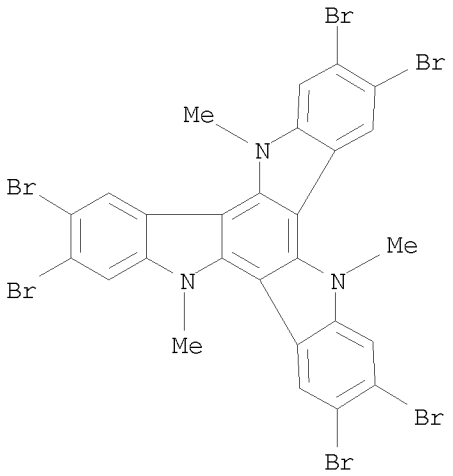
PRIORITY APPLN. INFO.: JP 2004-323435 20041108
OTHER SOURCE(S): MARPAT 144:498402
IT 887402-47-3P 887402-49-5P
RL: DEV (Device component use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of organic carrier transport material for organic electroluminescent
display showing extended service life and improved light efficiency)
RN 887402-47-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-trifluoro-10,15-dihydro-5,10,15-trimethyl- (9CI) (CA INDEX NAME)



RN 887402-49-5 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexacarbonitrile, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



IT 887402-41-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of organic carrier transport material for organic electroluminescent
display showing extended service life and improved light efficiency)
RN 887402-41-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-trimethyl- (9CI) (CA INDEX NAME)



L3 ANSWER 23 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:376355 CAPLUS
DOCUMENT NUMBER: 145:92446
TITLE: Monodisperse six-armed triazatruxenes: Microwave-enhanced synthesis and highly efficient pure-deep-blue electroluminescence
AUTHOR(S): Lai, Wen-Yong; Zhu, Rui; Fan, Qu-Li; Hou, Lin-Tao; Cao, Yong; Huang, Wei
CORPORATE SOURCE: Institute of Advanced Materials (IAM), Fudan University, Shanghai, 200433, Peop. Rep. China

SOURCE: Macromolecules (2006), 39(11), 3707-3709
CODEN: MAMOBX; ISSN: 0024-9297
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 957896-81-0P
RL: DEV (Device component use); PNU (Preparation, unclassified); PRP (Properties); PREP (Preparation); USES (Uses)
(monodisperse six-armed triazatruxenes: microwave-enhanced synthesis and highly efficient pure-deep-blue electroluminescence)
RN 957896-81-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexakis(9,9-dihexyl-9H-fluoren-2-yl)-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)

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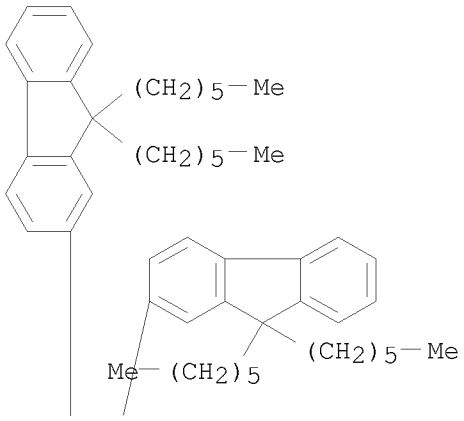
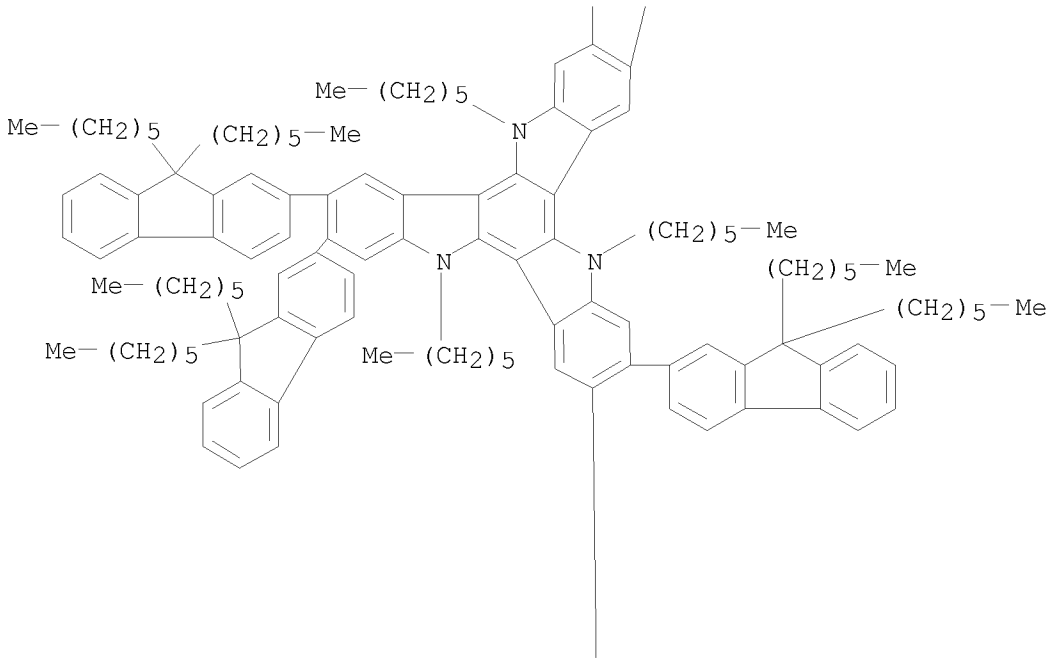


PAGE 2-A



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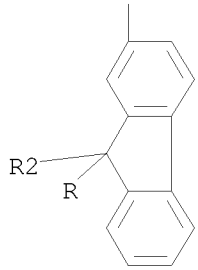
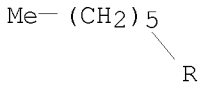
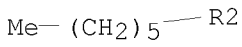
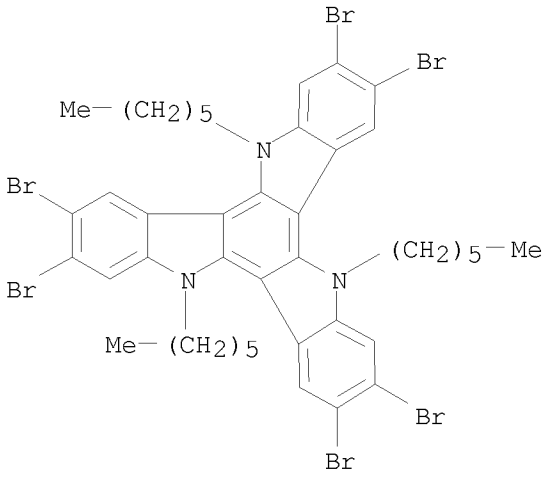






IT 894357-86-9
RL: RCT (Reactant); RACT (Reactant or reagent)
(monodisperse six-armed triazatruxenes: microwave-enhanced synthesis and highly efficient pure-deep-blue electroluminescence)
RN 894357-86-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 24 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2006:269996 CAPLUS
DOCUMENT NUMBER: 144:321181
TITLE: Carbazole and indoline derivatives and organic light emitting device using same
INVENTOR(S): Kim, Kong Kyeom; Jang, Jun Gi
PATENT ASSIGNEE(S): LG Chem, Ltd., S. Korea
SOURCE: U.S. Pat. Appl. Publ., 21 pp.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20060063037	A1	20060323	US 2005-229093	20050919
US 7452615	B2	20081118		
WO 2006033538	A1	20060330	WO 2005-KR3077	20050915
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
EP 1805280	A1	20070711	EP 2005-808804	20050915
R: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR				
CN 101023148	A	20070822	CN 2005-80031464	20050915
JP 2008513441	T	20080501	JP 2007-532243	20050915
KR 2006051418	A	20060519	KR 2005-87219	20050920
IN 2007DN02032	A	20070817	IN 2007-DN2032	20070315
PRIORITY APPLN. INFO.:			KR 2004-74920 A	20040920

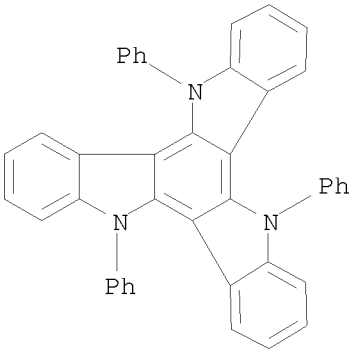
WO 2005-KR3077 W 20050915

OTHER SOURCE(S): MARPAT 144:321181

IT 879713-04-9P 879713-05-0P 879713-06-1P
879713-07-2P
RL: DEV (Device component use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)
(carbazole and indoline derivs. and organic light-emitting devices using them)

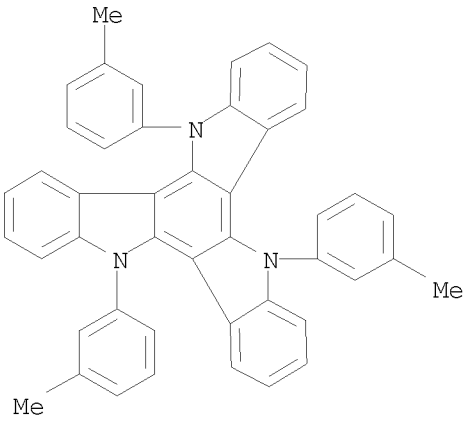
RN 879713-04-9 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-triphenyl- (9CI) (CA INDEX NAME)



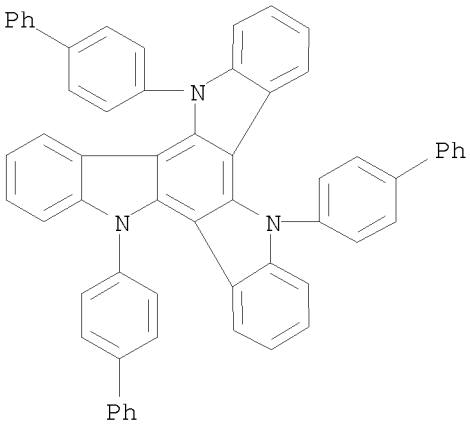
RN 879713-05-0 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-tris(3-methylphenyl)- (9CI) (CA INDEX NAME)



RN 879713-06-1 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris([1,1'-biphenyl]-4-yl)-10,15-dihydro- (9CI) (CA INDEX NAME)



RN 879713-07-2 CAPLUS
CN 1-Naphthalenamine, N,N',N''-(5H-diindolo[3,2-a:3',2'-c]carbazole-5,10,15-triyltri-4,1-phenylene)tris[N-phenyl- (9CI) (CA INDEX NAME)

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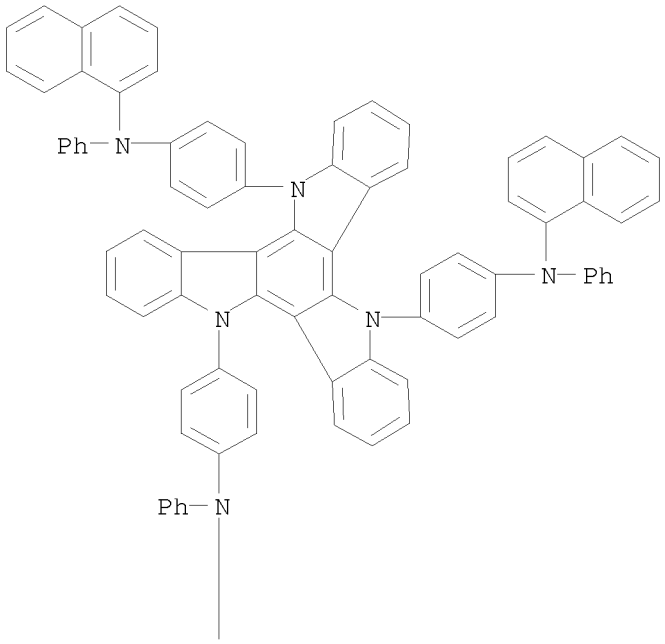
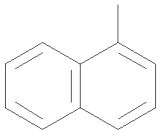
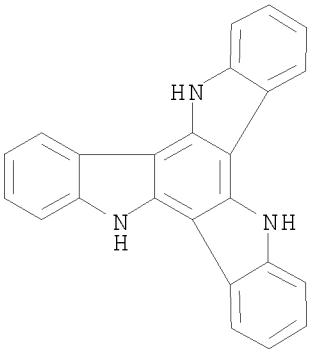


PAGE 2-A



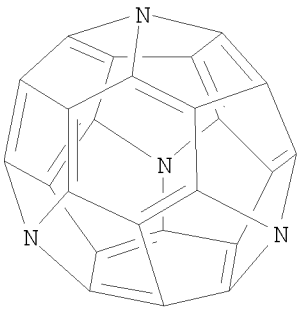
IT 109005-10-9P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(carbazole and indoline derivs. and organic light-emitting devices using them)
RN 109005-10-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 25 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:1082741 CAPLUS
DOCUMENT NUMBER: 144:157260
TITLE: Theoretical study of tetrahedral type (Td)C36N4 molecule
AUTHOR(S): Sun, Kuang Chung; Sun, Kuang Ming
CORPORATE SOURCE: Department of Chemical Engineering, Lee-Ming Institute of Technology, Taipei, Taiwan
SOURCE: Huaxue (2005), 63(2), 315-328
CODEN: HUHSA2; ISSN: 0441-3768
PUBLISHER: Chongkuo Hua Hsieh Hui
DOCUMENT TYPE: Journal
LANGUAGE: Chinese
IT 149333-56-2
RL: PRP (Properties)
(geometry, electronic structure, and phys. properties of tetrahedral type (Td)C36N4 mol. studied by DFT, HF, and PM3 calcns.)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



L3 ANSWER 26 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:902899 CAPLUS

DOCUMENT NUMBER: 143:229827
TITLE: Preparation of substituted sym-triindole derivatives by cyclocondensation reaction of substituted oxindole derivatives using phosphorus oxychloride
INVENTOR(S): Hiyoshi, Hidetaka; Kumagai, Hironobu; Ooi, Hideo
PATENT ASSIGNEE(S): Ihara Chemical Industry Co., Ltd., Japan
SOURCE: PCT Int. Appl., 66 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005077956	A1	20050825	WO 2005-JP2140	20050214
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1717239	A1	20061102	EP 2005-719087	20050214
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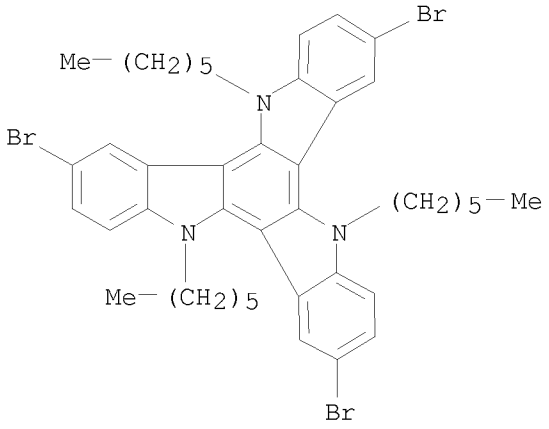
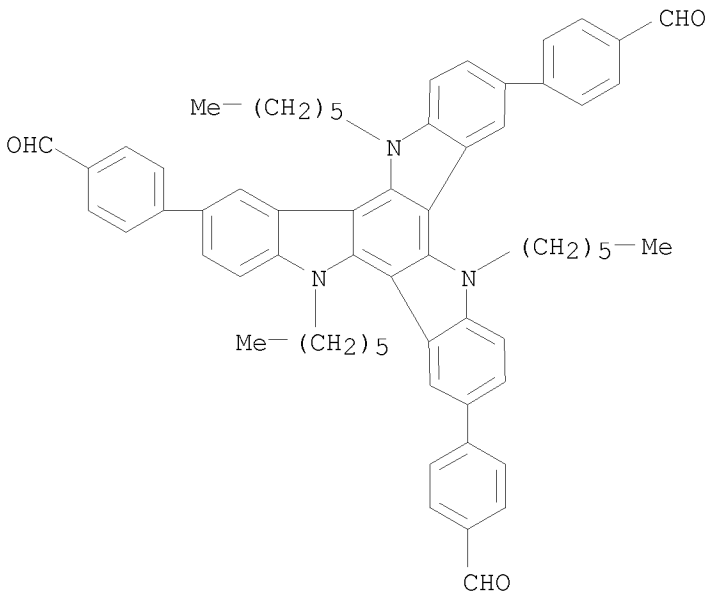
CN 1934114	A	20070321	CN 2005-80008807	20050214
IN 2006CN02981	A	20070608	IN 2006-CN2981	20060814
US 20070191455	A1	20070816	US 2006-589534	20060815
KR 2006128009	A	20061213	KR 2006-718942	20060915
PRIORITY APPLN. INFO.:			JP 2004-38874 A	20040216
			WO 2005-JP2140 W	20050214

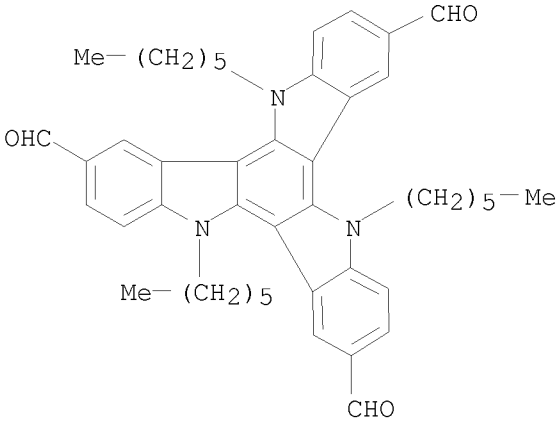
OTHER SOURCE(S): MARPAT 143:229827
IT 862856-06-2P 862856-09-5P 862856-15-3P
862856-19-7P 862856-22-2P
RL: RCT (Reactant); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of substituted sym-triindole derivs. as antistatic agents, chemical sensors, phototransistors, etc., by cyclocondensation reaction of substituted oxindole derivs. using phosphorus oxychloride)
RN 862856-06-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



RN 862856-09-5 CAPLUS
CN Benzaldehyde, 4,4',4''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)- (9CI) (CA INDEX NAME)

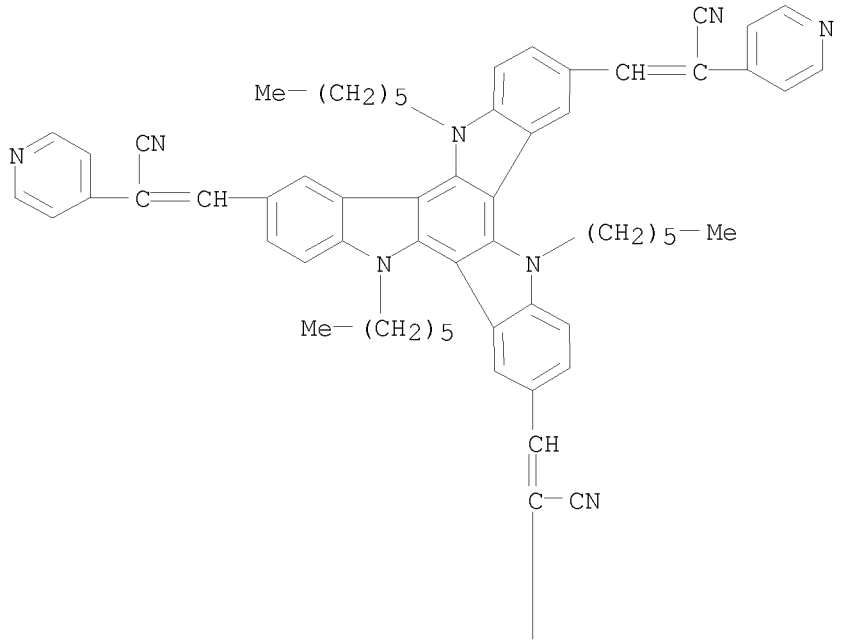


RN 862856-15-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxaldehyde, 5,10,15-trihexyl-10,15-dihydro- (CA INDEX NAME)



RN 862856-19-7 CAPLUS
CN 4-Pyridineacetonitrile, α,α',α''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (9CI) (CA INDEX NAME)

PAGE 1-A



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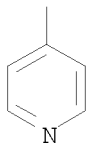
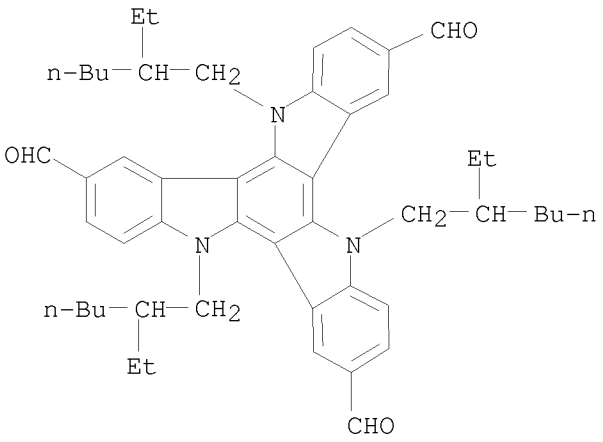


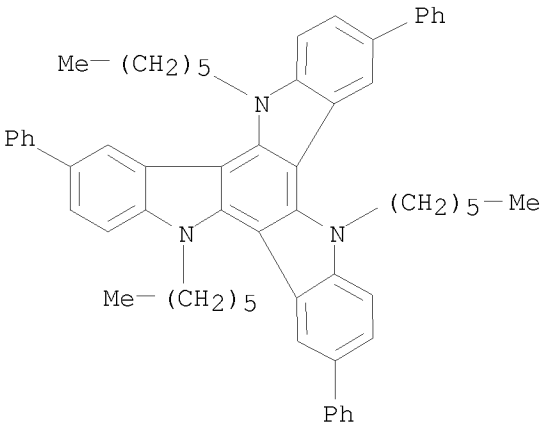
RN 862856-22-2 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxaldehyde, 5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



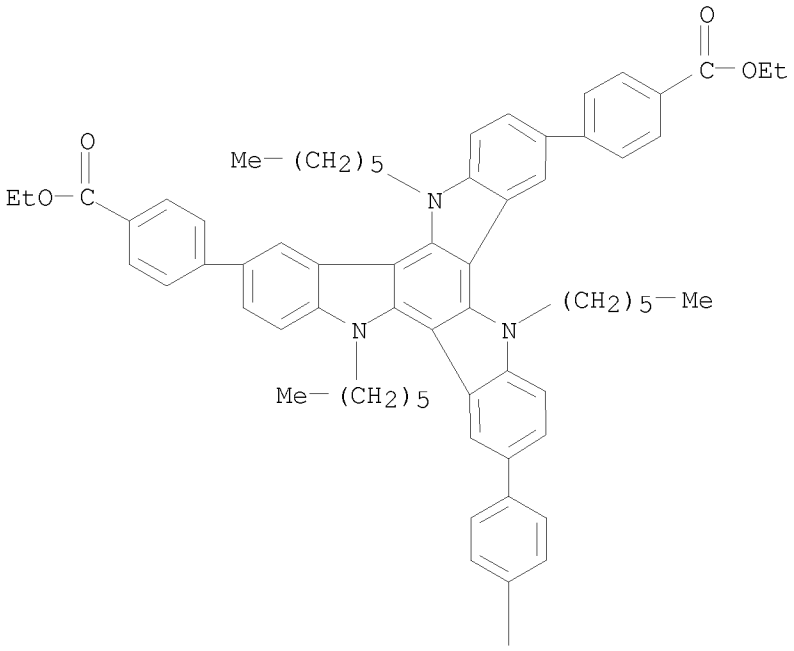
IT 862856-08-4P 862856-10-8P 862856-11-9P
862856-12-0P 862856-13-1P 862856-16-4P
862856-17-5P 862856-18-6P 862856-20-0P
862856-23-3P 862856-24-4P 862856-25-5P
862856-26-6P 862856-27-7P 862856-48-2P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of substituted sym-triindole derivs. as antistatic agents, chemical sensors, phototransistors, etc., by cyclocondensation reaction of substituted oxindole derivs. using phosphorus oxychloride)

RN 862856-08-4 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-3,8,13-triphenyl- (9CI) (CA INDEX NAME)



RN 862856-10-8 CAPLUS
CN Benzoic acid, 4,4',4''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)-, triethyl ester (9CI) (CA INDEX NAME)

PAGE 1-A



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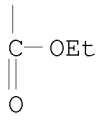
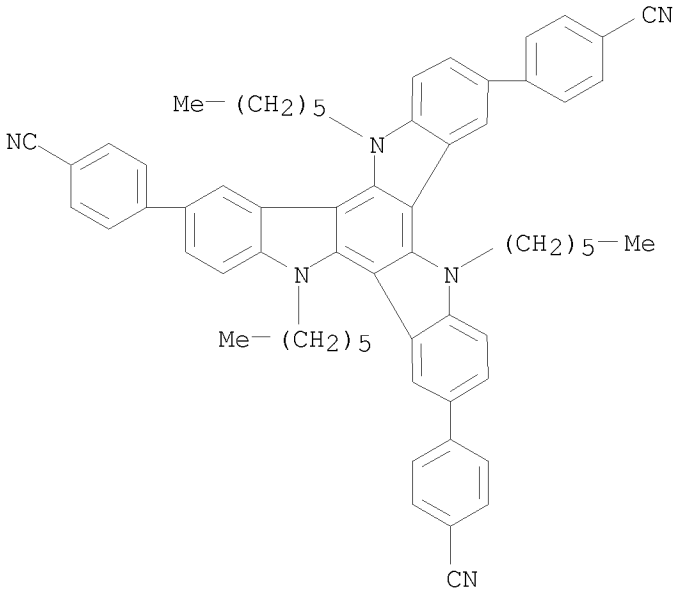
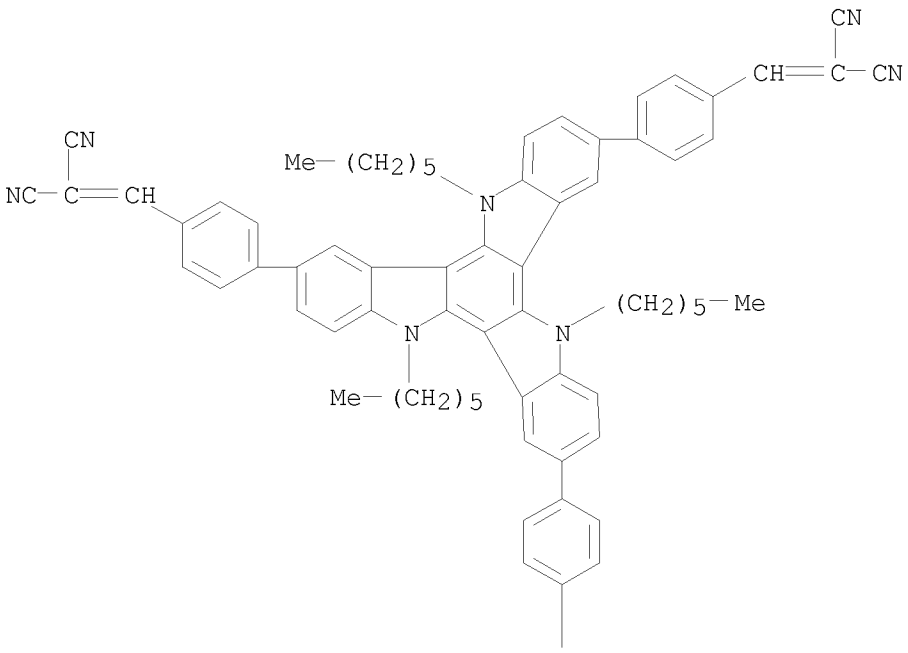
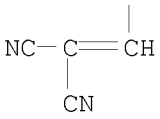


RN 862856-11-9 CAPLUS
CN Benzonitrile, 4,4',4''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)- (9CI) (CA INDEX NAME)

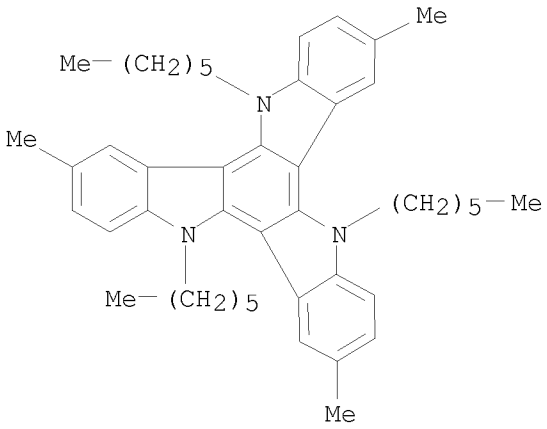


RN 862856-12-0 CAPLUS
CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)tris(4,1-phenylenemethylidyne)]tris- (9CI) (CA INDEX NAME)

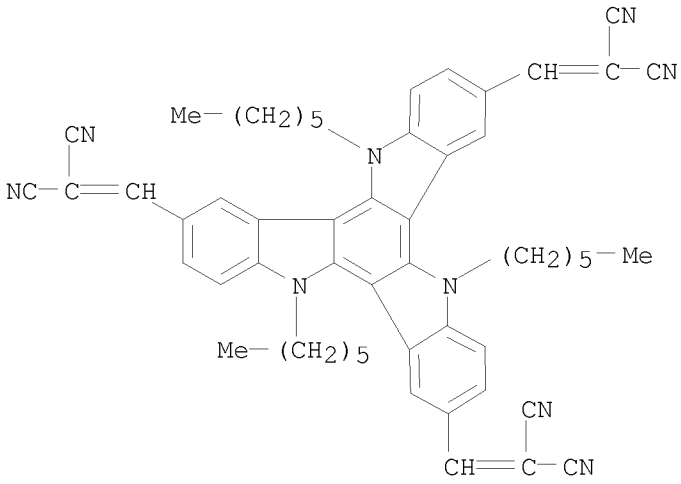




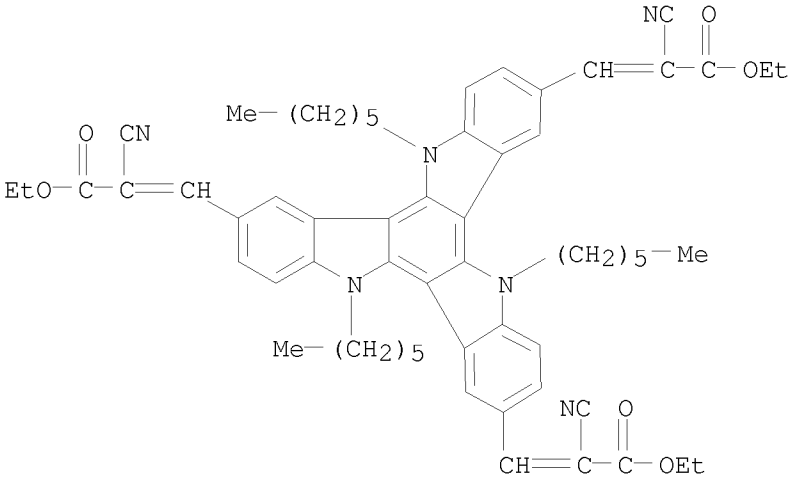
RN 862856-13-1 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-3,8,13-trimethyl- (9CI) (CA INDEX NAME)



RN 862856-16-4 CAPLUS
CN Propanedinitrile, 2,2',2''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris- (CA INDEX NAME)

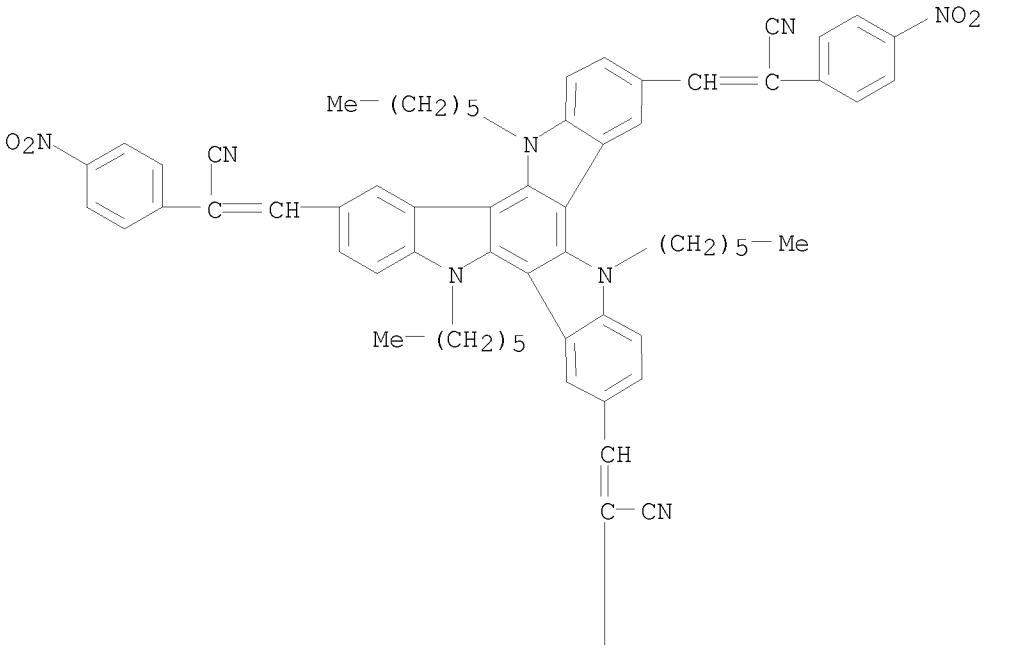


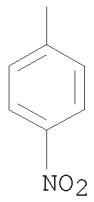
RN 862856-17-5 CAPLUS
CN 2-Propenoic acid, 3,3',3''-(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)tris[2-cyano-, triethyl ester (9CI) (CA INDEX NAME)



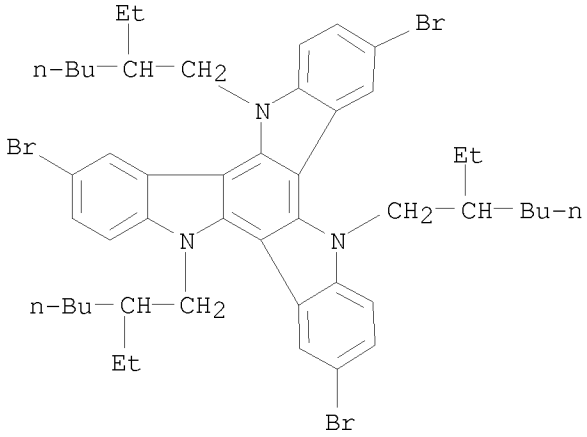
RN 862856-18-6 CAPLUS
CN Benzeneacetonitrile, α,α',α''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)trimethylidyne]tris[4-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A

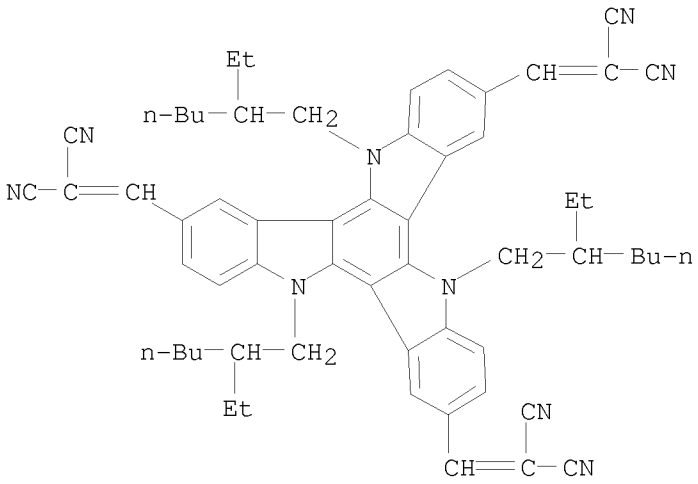




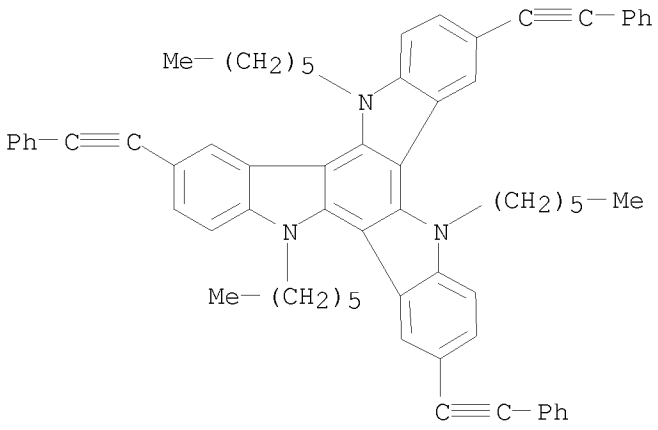
RN 862856-20-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 3,8,13-tribromo-5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



RN 862856-23-3 CAPLUS
CN Propanedinitrile, 2,2',2''-[[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]trimethylidyne]tris- (9CI) (CA INDEX NAME)

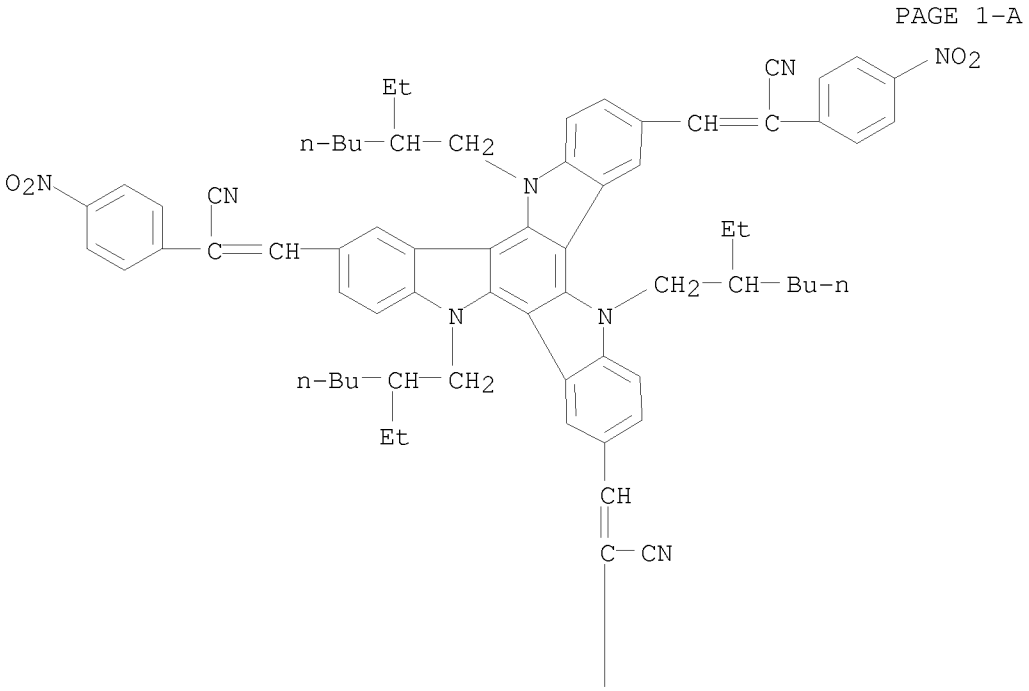


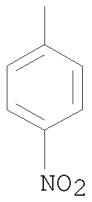
RN 862856-24-4 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-trihexyl-10,15-dihydro-3,8,13-tris(phenylethynyl)- (9CI) (CA INDEX NAME)



RN 862856-25-5 CAPLUS
CN Benzeneacetonitrile, α,α',α''-[[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]trimethylidyne]tris[4-nitro- (9CI) (CA INDEX NAME)

PAGE 1-A





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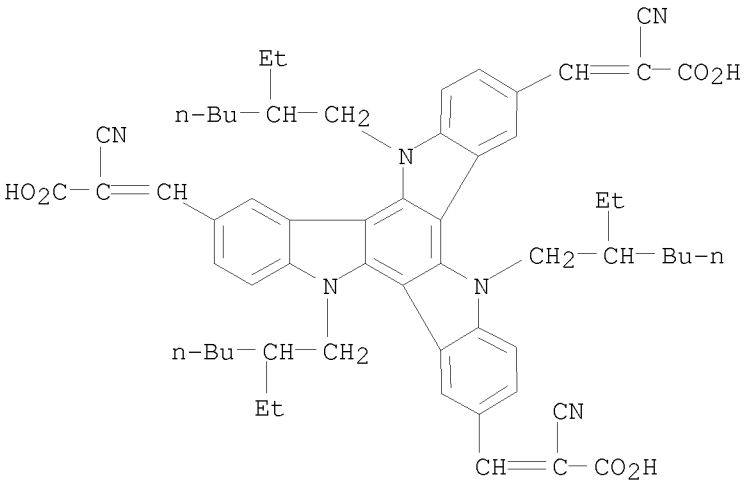
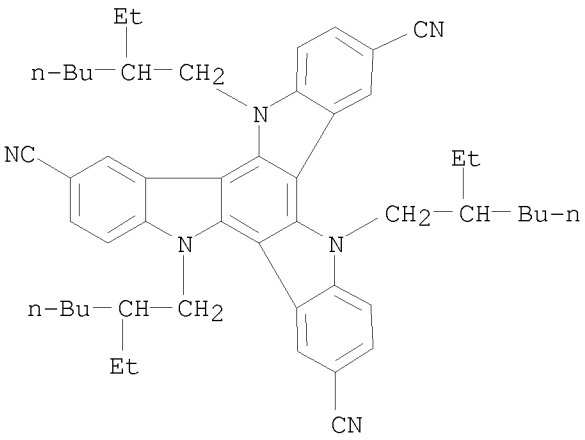
CN 2-Propenoic acid, 3,3',3''-[5,10,15-tris(2-ethylhexyl)-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl]tris[2-cyano- (CA INDEX NAME)

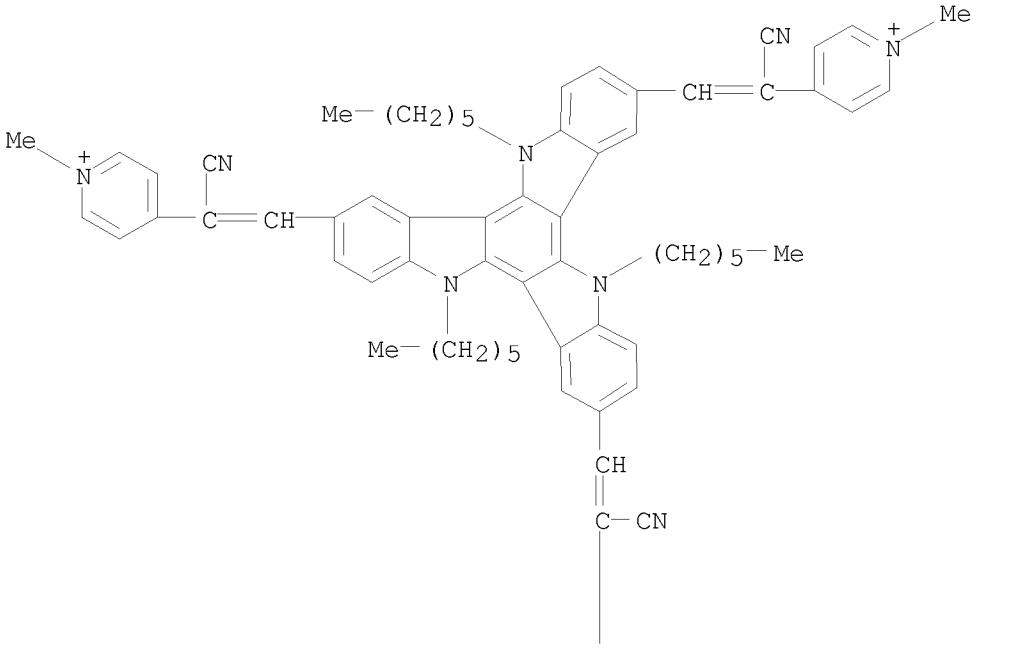


RN 862856-27-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarbonitrile, 5,10,15-tris(2-ethylhexyl)-10,15-dihydro- (CA INDEX NAME)



RN 862856-48-2 CAPLUS
CN Pyridinium, 4,4',4''-[(5,10,15-trihexyl-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole-3,8,13-triyl)tris(1-cyano-2,1-ethenediyl)]tris[1-methyl-, triiodide (9CI) (CA INDEX NAME)

PAGE 1-A



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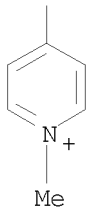


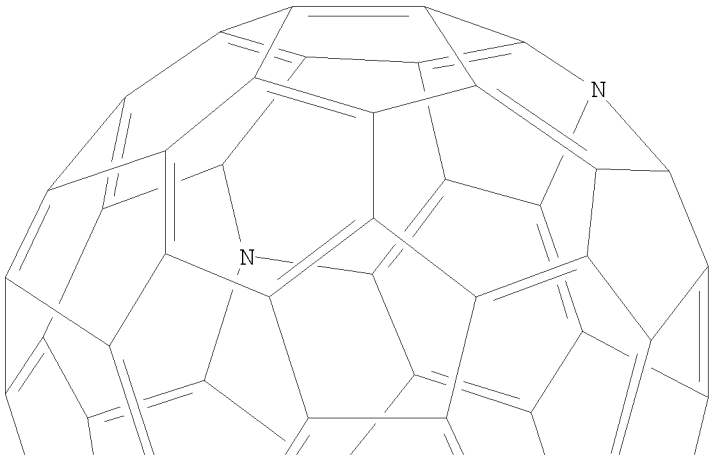
●3 I^-

REFERENCE COUNT: 8 THERE ARE 8 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

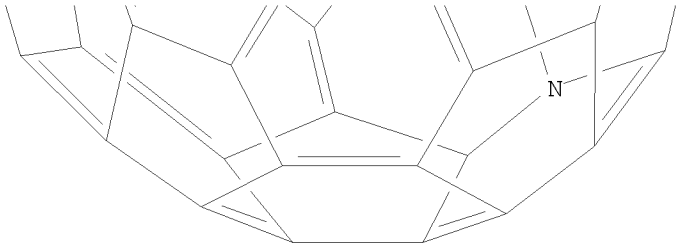
L3 ANSWER 27 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:824115 CAPLUS
DOCUMENT NUMBER: 144:135867
TITLE: Structures and stabilities of hydroazafullerenes C60-n(NH)n (n = 2-3)
AUTHOR(S): Liang, Yunxiao; Shang, Zhenfeng; Xu, Xiufang; Zhao, Xuezhuang
CORPORATE SOURCE: Department of Chemistry, Ningbo University, Ningbo, 315211, Peop. Rep. China
SOURCE: THEOCHEM (2005), 728(1-3), 225-229
CODEN: THEODJ; ISSN: 0166-1280
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal

LANGUAGE: English
IT 873531-55-6
RL: PRP (Properties)
(structures and stabilities of isomers of hydroazafullerenes C58(NH)2 and C57(NH)3 from AM1 and B3LYP-DFT calcns.)
RN 873531-55-6 CAPLUS
CN 9H-1,16,30-Triaza[5,6]fullerene-C60-Ih, 17,31-dihydro- (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 2-A



REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 28 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:15771 CAPLUS
DOCUMENT NUMBER: 142:97499
TITLE: Hydrogen storage by reversible hydrogenation of pi-conjugated substrates
INVENTOR(S): Pez, Guido Peter; Scott, Aaron Raymond; Cooper, Alan Charles; Cheng, Hansong
PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 58 pp., Cont.-in-part of U.S. Ser. No. 430,246.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 20050002857	A1	20050106	US 2004-833484	20040427
US 7429372	B2	20080930		
US 20040223907	A1	20041111	US 2003-430246	20030506
US 7101530	B2	20060905		
CA 2465555	A1	20041106	CA 2004-2465555	20040429
CA 2524846	A1	20050106	CA 2004-2524846	20040506
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CN 101279222	A	20081008	CN 2008-10086436	20040506
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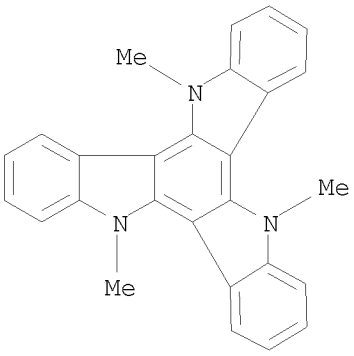
US 7351395	B1	20080401	US 2005-266803	20051104
KR 2006022651	A	20060310	KR 2005-721146	20051107

PRIORITY APPLN. INFO.:

US 2003-430246	A2	20030506
US 2004-833467	A	20040427
US 2004-833484	A	20040427
CN 2004-80017488	A3	20040506
WO 2004-US14034	W	20040506

IT 75833-66-8
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(hydrogen storage by reversible hydrogenation of pi-conjugated substrates)
RN 75833-66-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



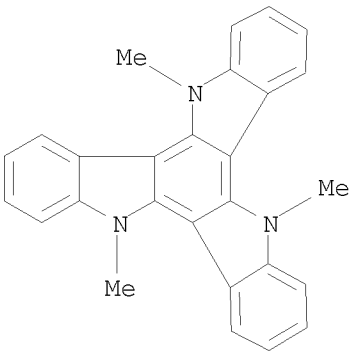
REFERENCE COUNT: 41 THERE ARE 41 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 29 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2005:14287 CAPLUS
DOCUMENT NUMBER: 142:117630
TITLE: Hydrogen storage reversible hydrogenated pi-conjugated substrates
INVENTOR(S): Pez, Guido Peter; Scott, Aaron Raymond; Cooper, Alan Charles; Cheng, Hansong; Bagzis, Larry David; Appleby, John Bruce
PATENT ASSIGNEE(S): Air Products and Chemicals, Inc., USA
SOURCE: PCT Int. Appl., 133 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 5
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005000457	A2	20050106	WO 2004-US14034	20040506
WO 2005000457	A3	20050707		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 20040223907	A1	20041111	US 2003-430246	20030506
US 7101530	B2	20060905		
US 20050002857	A1	20050106	US 2004-833484	20040427
US 7429372	B2	20080930		
US 20050013767	A1	20050120	US 2004-833467	20040427
CA 2524846	A1	20050106	CA 2004-2524846	20040506
EP 1660404	A2	20060531	EP 2004-751428	20040506
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809505	A	20060726	CN 2004-80017488	20040506
CN 100381351	C	20080416		
JP 2007515363	T	20070614	JP 2006-532795	20040506

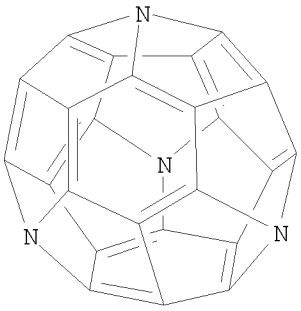
MX 2005PA11850	A	20060525	MX 2005-PA11850		20051104
KR 2006022651	A	20060310	KR 2005-721146		20051107
PRIORITY APPLN. INFO.:			US 2003-430246	A	20030506
			US 2004-833467	A	20040427
			US 2004-833484	A	20040427
			WO 2004-US14034	W	20040506

IT 75833-66-8
RL: CPS (Chemical process); PEP (Physical, engineering or chemical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(hydrogen storage reversible hydrogenated pi-conjugated substrates)
RN 75833-66-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 30 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:945049 CAPLUS
DOCUMENT NUMBER: 142:46481
TITLE: Electron-phonon interactions in C28-derived molecular solids
AUTHOR(S): Romero, Nichols A.; Kim, Jeongnim; Martin, Richard M.
CORPORATE SOURCE: Department of Physics, Materials Research Laboratory and Materials Computation Center, University of Illinois, Urbana, IL, 61801, USA
SOURCE: Physical Review B: Condensed Matter and Materials Physics (2004), 70(14), 140504/1-140504/4
CODEN: PRBMDO; ISSN: 1098-0121
PUBLISHER: American Physical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2
RL: PRP (Properties)
(electron-phonon interactions in C28-derived mol. solids)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 31 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:781561 CAPLUS
DOCUMENT NUMBER: 141:403104
TITLE: Study on the optical and magnetic properties of C48N12 azafullerene isomers
AUTHOR(S): Gu, Feng Long; Chen, Zhongfang; Jiao, Haijun; Tian, Wei Quan; Aoki, Yuriko; Thiel, Walter; Schleyer, Paul von Rague
CORPORATE SOURCE: Japan Science and Technology Corporation (JST), Kawaguchi, Saitama, 332-0012, Japan
SOURCE: Physical Chemistry Chemical Physics (2004), 6(19), 4566-4570
CODEN: PPCPFQ; ISSN: 1463-9076
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 577977-43-6
RL: PRP (Properties)
(optical and magnetic properties of azafullerene isomers)
RN 577977-43-6 CAPLUS
CN 1,9,16,17,21,30,31,40,44,45,52,60-Dodecaaza[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)

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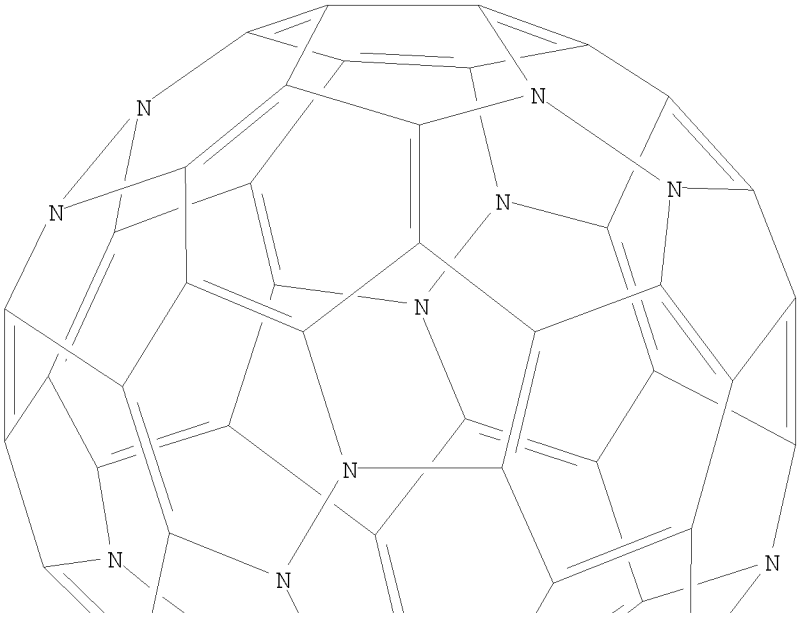
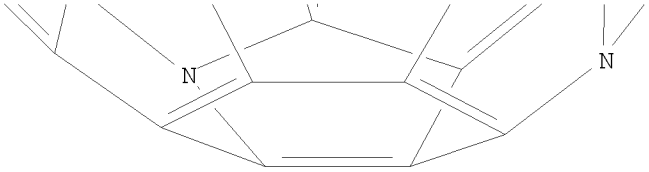


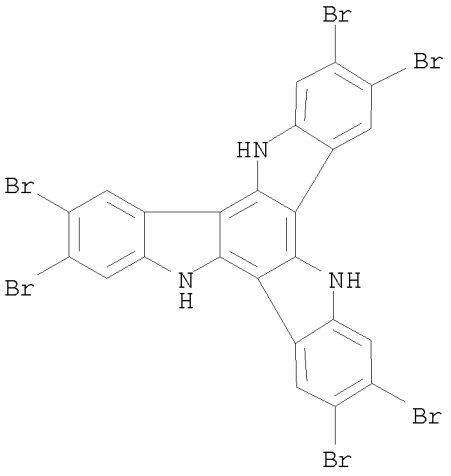
PAGE 2-A



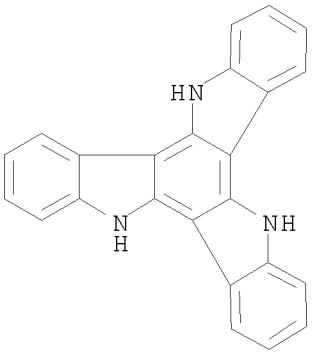
REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 32 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:592508 CAPLUS
DOCUMENT NUMBER: 141:277443
TITLE: Synthesis of a Triaza Analogue of Crushed-Fullerene by Intramolecular Palladium-Catalyzed Arylation
AUTHOR(S): Gomez-Lor, Berta; Echavarren, Antonio M.
CORPORATE SOURCE: Instituto de Ciencia de Materiales de Madrid, CSIC, Departamento de Quimica Organica, Universidad Autonoma de Madrid (UAM), Madrid, 28049, Spain
SOURCE: Organic Letters (2004), 6(17), 2993-2996
CODEN: ORLEF7; ISSN: 1523-7060
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 141:277443
IT 307519-55-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(synthesis of a triaza analog of crushed-fullerene by intramol. palladium-catalyzed arylation)
RN 307519-55-7 CAPLUS

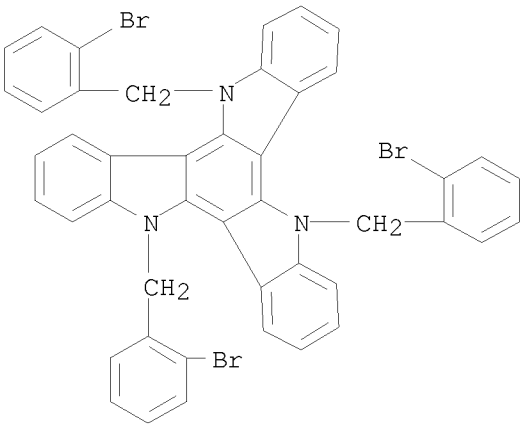
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



IT 109005-10-9P 757233-23-1P 757233-25-3P
757233-26-4P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(synthesis of a triaza analog of crushed-fullerene by intramol. palladium-catalyzed arylation)
RN 109005-10-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)

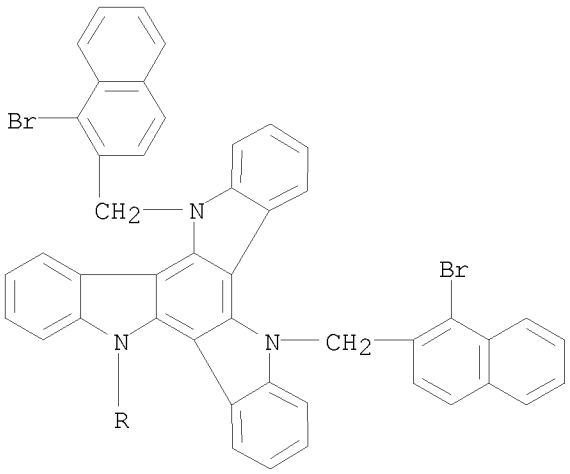


RN 757233-23-1 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
5,10,15-tris[(2-bromophenyl)methyl]-10,15-dihydro- (9CI) (CA INDEX NAME)

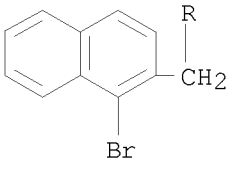


RN 757233-25-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 5,10,15-tris[(2-bromo-1-naphthalenyl)methyl]-10,15-dihydro- (9CI) (CA INDEX NAME)

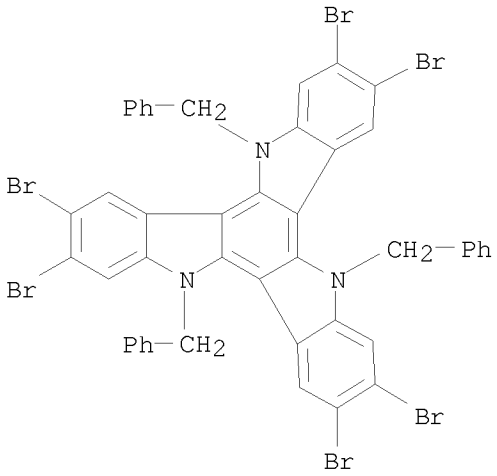
PAGE 1-A



PAGE 2-A

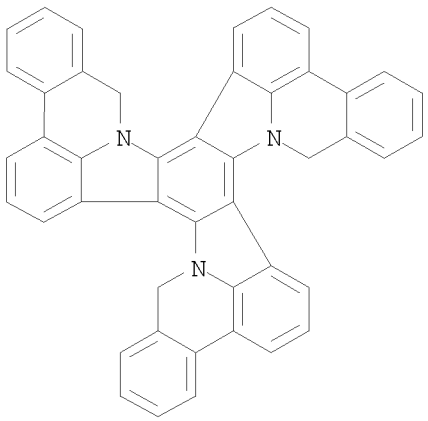


RN 757233-26-4 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro-5,10,15-tris(phenylmethyl)- (9CI) (CA INDEX NAME)

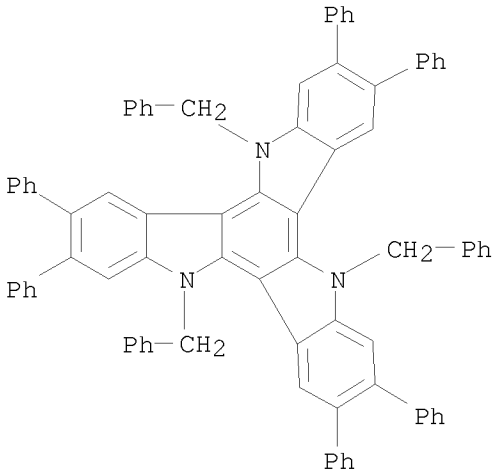


IT 757233-19-5P 757233-24-2P 757233-27-5P
RL: SPN (Synthetic preparation); PREP (Preparation)
(synthesis of a triaza analog of crushed-fullerene by intramol. palladium-catalyzed arylation)
RN 757233-19-5 CAPLUS
CN 9H,20H,31H-Tribenzo[k,k',k'']benzo[1''',2''':4,5;3''',4''':4',5';5''',6''':4'',5'']tripyrrolo[3,2,1-de:3',2',1'-d'e':3'',2'',1''-d''e'']triphenanthridine (9CI) (CA INDEX NAME)

*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***
RN 757233-24-2 CAPLUS
CN 9H,18H,27H-Benzo[1''',2''':4,5;3''',4''':4',5';5''',6''':4'',5'']tripyrrolo[3,2,1-de:3',2',1'-d'e':3'',2'',1''-d''e'']triphenanthridine (9CI) (CA INDEX NAME)



RN 757233-27-5 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-2,3,7,8,12,13-hexaphenyl-5,10,15-tris(phenylmethyl)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 33 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:503799 CAPLUS
DOCUMENT NUMBER: 141:267571
TITLE: Tuning spectral properties of fullerenes by substitutional doping
AUTHOR(S): Xie, Rui-Hua; Bryant, Garnett W.; Sun, Guangyu; Kar, Tapas; Chen, Zhongfang; Smith, Vedene H., Jr.; Araki, Yasuyuki; Tagmatarchis, Nikos; Shinohara, Hisanori; Ito, Osamu
CORPORATE SOURCE: National Institute of Standards and Technology, Gaithersburg, MD, 20899-8423, USA
SOURCE: Physical Review B: Condensed Matter and Materials Physics (2004), 69(20), 201403/1-201403/4
CODEN: PRBMDO; ISSN: 0163-1829
PUBLISHER: American Physical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 425691-15-2
RL: PRP (Properties)
(tuning spectral properties of fullerenes by substitutional doping with)
RN 425691-15-2 CAPLUS
CN 2,4,7,9,11,13,15,17,23,31,33,36,47,54,58-Pentadecaaza-1,3,8,10,12,14,16,18,22,30,32,37,46,48,53-pentadecabora[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)

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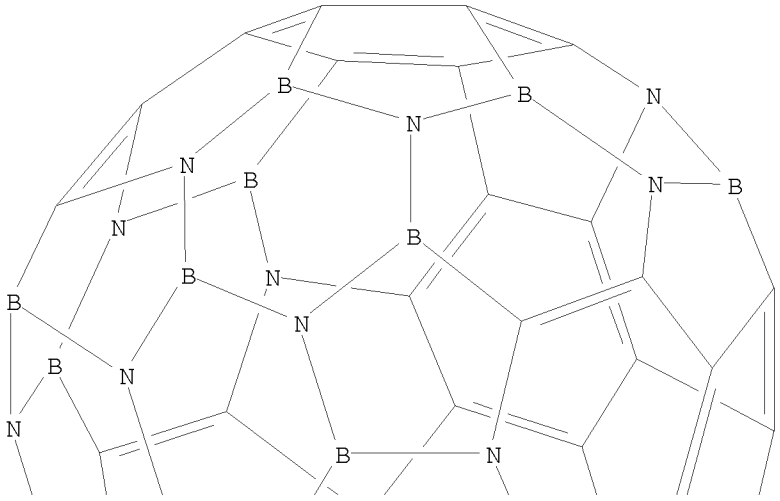

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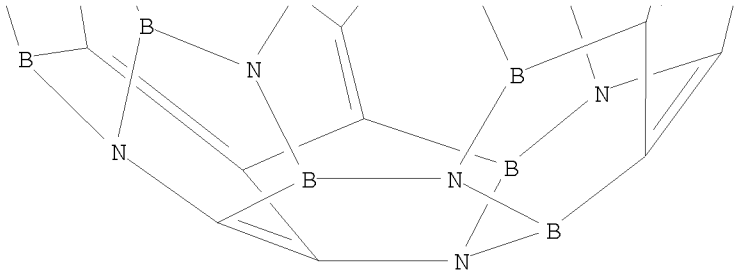
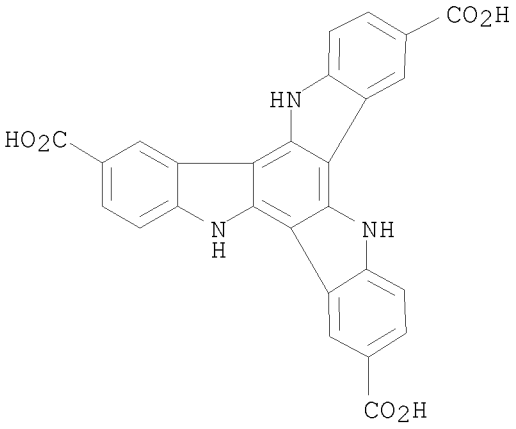


REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

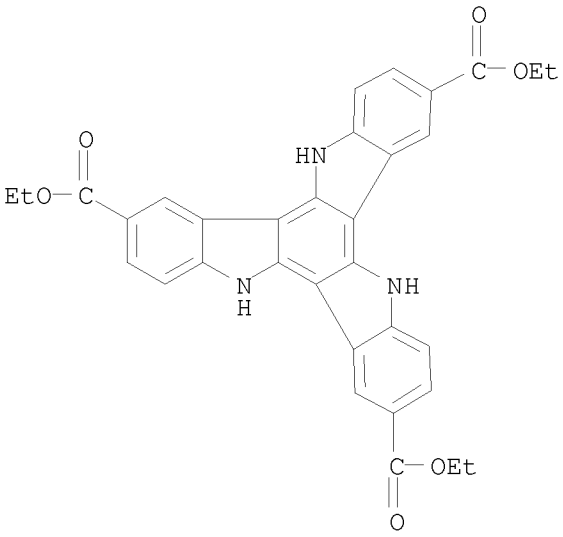
L3 ANSWER 34 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:326427 CAPLUS
DOCUMENT NUMBER: 140:357316
TITLE: Preparation of carbazoles and their use as stabilizers for organic materials
INVENTOR(S): Ishikawa, Junichi; Kamikawa, Takashi
PATENT ASSIGNEE(S): Sumitomo Chemical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE

JP 2004123619 A 20040422 JP 2002-290840 20021003
PRIORITY APPLN. INFO.: JP 2002-290840 20021003
OTHER SOURCE(S): CASREACT 140:357316; MARPAT 140:357316
IT 681249-18-3P
RL: IMF (Industrial manufacture); MOA (Modifier or additive use); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(preparation of carbazoles as stabilizers from phloroglucinol and anilines)
RN 681249-18-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxylic acid, 10,15-dihydro- (CA INDEX NAME)

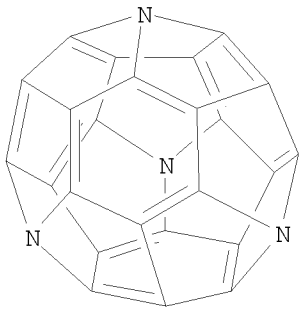


IT 681249-17-2P
RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of carbazoles as stabilizers from phloroglucinol and anilines)
RN 681249-17-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8,13-tricarboxylic acid, 10,15-dihydro-, 3,8,13-triethyl ester (CA INDEX NAME)



L3 ANSWER 35 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2004:188584 CAPLUS
DOCUMENT NUMBER: 141:148930
TITLE: Electron-phonon interactions in C28-derived molecular solids
AUTHOR(S): Romero, Nichols A.; Kim, Jeongnim; Martin, Richard M.
CORPORATE SOURCE: Department of Physics, Materials Research Laboratory, and Materials Computation Center, University of Illinois, Urbana, IL, 61801, USA
SOURCE: Los Alamos National Laboratory, Preprint Archive, Condensed Matter (2004) 1-10, arXiv:cond-mat/0403003, 27 Feb 2004
CODEN: LNCMFR
URL: http://xxx.lanl.gov/pdf/cond-mat/0403003
PUBLISHER: Los Alamos National Laboratory
DOCUMENT TYPE: Preprint
LANGUAGE: English
IT 149333-56-2
RL: PRP (Properties)
(electron-phonon interactions in C28-derived mol. solids)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



REFERENCE COUNT: 35 THERE ARE 35 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 36 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2004:139823 CAPLUS
DOCUMENT NUMBER: 140:184696
TITLE: Indole compound based secondary battery and capacitor
INVENTOR(S): Kaneko, Shinako; Nishiyama, Toshihiko; Kamito, Hiroyuki; Shinoda, Tomoki; Mitani, Katsuya; Kurosaki, Masato; Nakagawa, Yuji
PATENT ASSIGNEE(S): NEC Tokin Corp., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 25 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

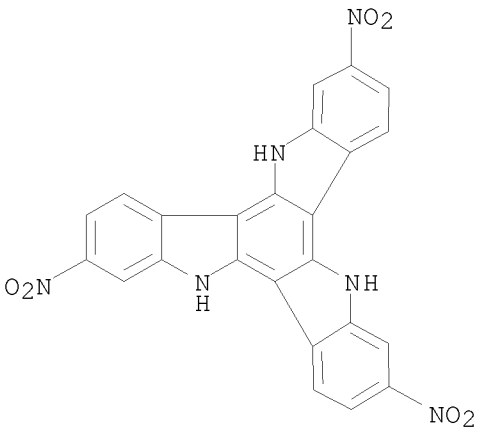
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2004055240	A	20040219	JP 2002-208997	20020718
JP 3657245	B2	20050608		

PRIORITY APPLN. INFO.: JP 2002-208997 20020718
OTHER SOURCE(S): MARPAT 140:184696
IT 583023-55-6
RL: DEV (Device component use); USES (Uses)

(indole derivative trimer oxide electrode active mass for secondary batteries and capacitors)

RN 583023-55-6 CAPLUS

CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-2,7,12-trinitro- (9CI) (CA INDEX NAME)



L3 ANSWER 37 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

ACCESSION NUMBER: 2003:986576 CAPLUS

DOCUMENT NUMBER: 141:215074

TITLE: Photorefractive properties of conjugated carbazole polymers

AUTHOR(S): Aoyama, Tetsuya; Sassa, Takafumi; Mooren, Nicolai; Imase, Yoshihiro; Gunji, Atsushi; Sone, Takeyuki; Tabata, Masayoshi; Okubo, Takashi; Mitani, Tadaoki; Wada, Tatsuo

CORPORATE SOURCE: RIKE, The Institute of Physical and Chemical Research, 2-1 Hirosawa, Wako, Saitama, 351-0198, Japan

SOURCE: Proceedings of SPIE-The International Society for Optical Engineering (2003), 5216(Organic Holographic Materials and Applications), 63-70
CODEN: PSISDG; ISSN: 0277-786X

PUBLISHER: SPIE-The International Society for Optical Engineering

DOCUMENT TYPE: Journal

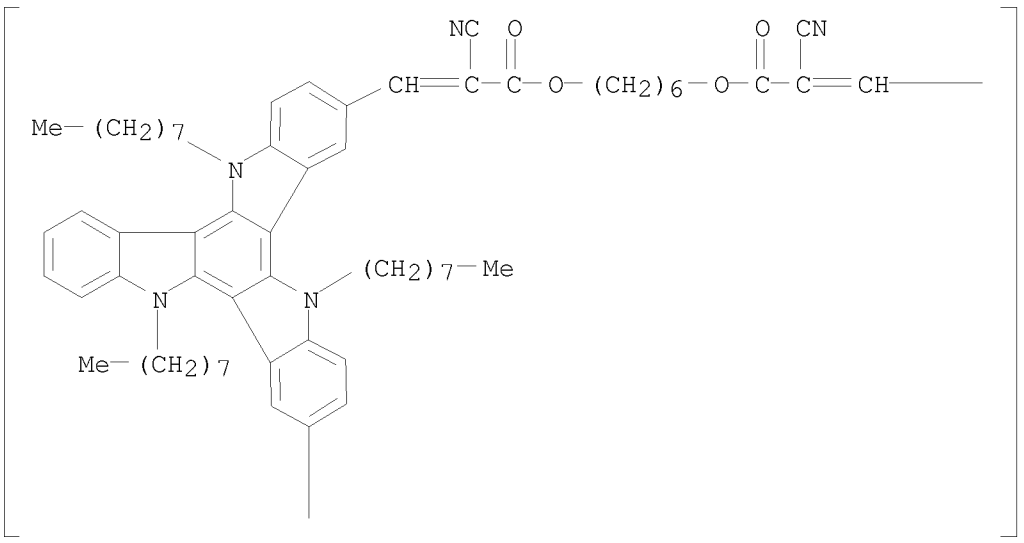
LANGUAGE: English

IT 742061-88-7

RL: DEV (Device component use); PRP (Properties); USES (Uses)
(photorefractive properties of conjugated carbazole polymers)

RN 742061-88-7 CAPLUS

CN Poly[(10,15-dihydro-5,10,15-trioctyl-5H-diindolo[3,2-a:3',2'-c]carbazole-2,7-diyl)(2-cyano-3-oxo-1-propene-1,3-diyl)oxy-1,6-hexanediyloxy(2-cyano-1-oxo-2-propene-1,3-diyl)] (9CI) (CA INDEX NAME)

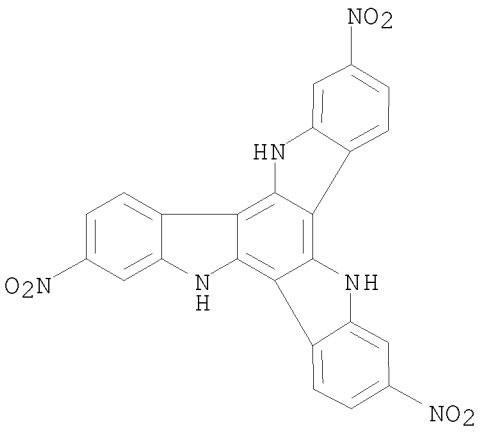


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 38 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:678085 CAPLUS
DOCUMENT NUMBER: 139:199966
TITLE: Secondary battery and capacitor utilizing indole compounds
INVENTOR(S): Kaneko, Shinako; Nishiyama, Toshihiko; Kamisuki, Hiroyuki; Mitani, Masaya; Kurosaki, Masato; Nobuta, Tomoki; Nakagawa, Yuji
PATENT ASSIGNEE(S): NEC Tokin Corp., Japan
SOURCE: Brit. UK Pat. Appl., 51 pp.
CODEN: BAXXDU
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2385706	A	20030827	GB 2003-3325	20030213
GB 2385706	B	20050615		
JP 2003249221	A	20030905	JP 2002-49706	20020226
JP 3538185	B2	20040614		
US 20030186124	A1	20031002	US 2003-365550	20030213
US 7205071	B2	20070417		
CN 1441509	A	20030910	CN 2003-106256	20030224

PRIORITY APPLN. INFO.: JP 2002-49706 A 20020226
IT 583023-55-6
RL: DEV (Device component use); USES (Uses)
(secondary battery and capacitor utilizing indole compds.)
RN 583023-55-6 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-2,7,12-trinitro- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 39 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2003:428546 CAPLUS
DOCUMENT NUMBER: 139:186069
TITLE: High-energy structures of azafullerene C48N12
AUTHOR(S): Riad Manaa, M.; Sprehn, David W.; Ichord, Heather A.
CORPORATE SOURCE: Lawrence Livermore National Laboratory, University of California, Energetic Materials Center, Livermore, CA, 94551, USA
SOURCE: Chemical Physics Letters (2003), 374(3,4), 405-409
CODEN: CHPLBC; ISSN: 0009-2614
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 577977-43-6
RL: PRP (Properties)
(high-energy structures of azafullerene C48N12)
RN 577977-43-6 CAPLUS
CN 1,9,16,17,21,30,31,40,44,45,52,60-Dodecaaza[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)

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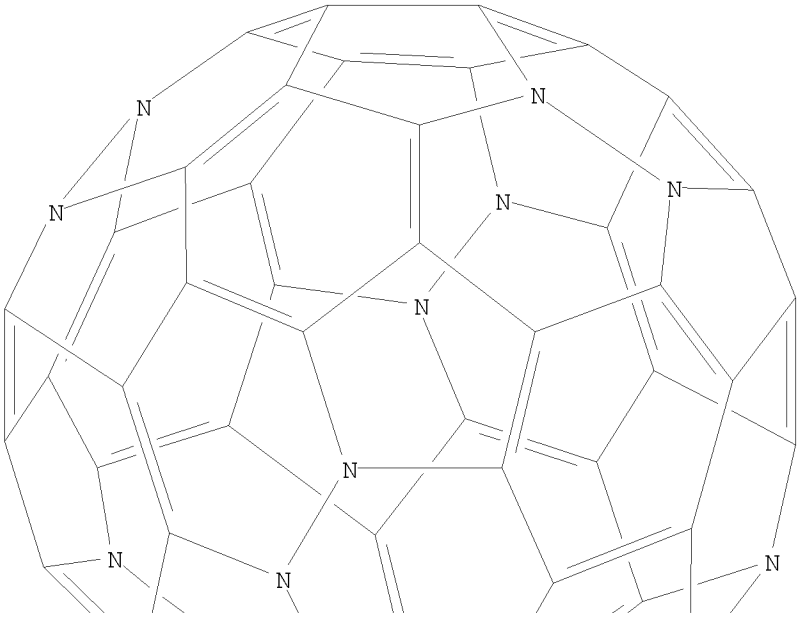

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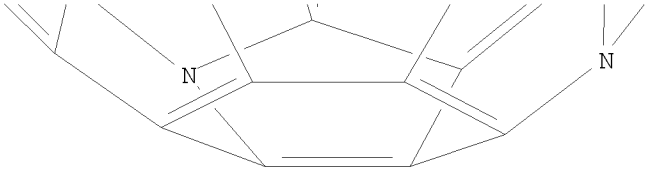
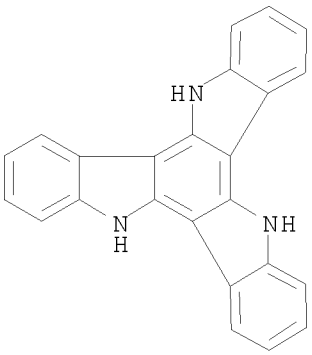


REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 40 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:681529 CAPLUS
DOCUMENT NUMBER: 138:56274
TITLE: A DFT study of polymerization mechanisms of indole
AUTHOR(S): Yurtsever, Mine; Yurtsever, Ersin
CORPORATE SOURCE: Department of Chemistry, Istanbul Tech. University, Istanbul, 80626, Turk.
SOURCE: Polymer (2002), 43(22), 6019-6025
CODEN: POLMAG; ISSN: 0032-3861
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 109005-10-9
RL: PRP (Properties)
(d. functional theory calcns. of polymerization mechanisms of indole and relative energy of indole oligomers)
RN 109005-10-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 41 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2002:159940 CAPLUS
DOCUMENT NUMBER: 136:386172
TITLE: Boron-Nitrogen (BN) Substitution of Fullerenes: C60 to C12B24N24 CBN Ball
AUTHOR(S): Pattanayak, Jayasree; Kar, Tapas; Scheiner, Steve
CORPORATE SOURCE: Department of Chemistry and Biochemistry, Utah State University, Logan, UT, 84322-0300, USA
SOURCE: Journal of Physical Chemistry A (2002), 106(12), 2970-2978
CODEN: JPCAFH; ISSN: 1089-5639
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 425691-15-2
RL: PRP (Properties)
(relative stability of isomers of boron-nitrogen substituted fullerenes calculated by B3LYP DFT and semiempirical MNDO methods)
RN 425691-15-2 CAPLUS
CN 2,4,7,9,11,13,15,17,23,31,33,36,47,54,58-Pentadecaaza-1,3,8,10,12,14,16,18,22,30,32,37,46,48,53-pentadecabora[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)

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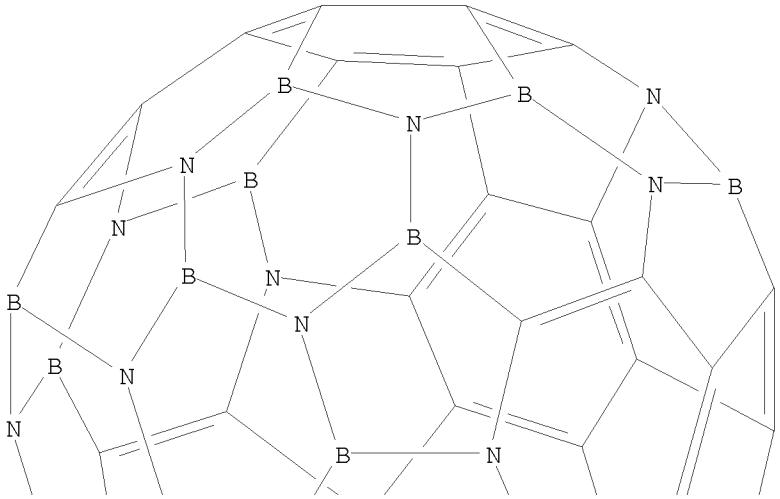

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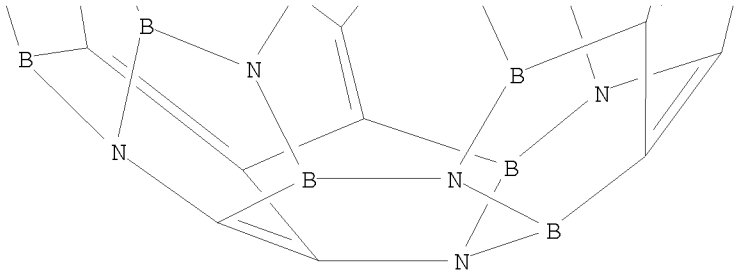
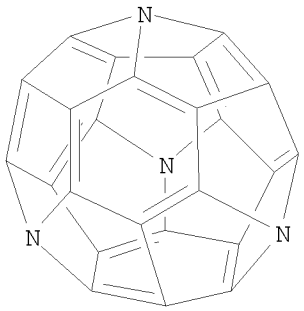


REFERENCE COUNT: 63 THERE ARE 63 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 42 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:897102 CAPLUS
DOCUMENT NUMBER: 136:252748
TITLE: Theoretical investigation into structures and magnetic properties of smaller fullerenes and their heteroanalogues
AUTHOR(S): Chen, Zhongfang; Jiao, Haijun; Buhl, Michael; Hirsch, Andreas; Thiel, Walter
CORPORATE SOURCE: Institut fur Organische Chemie, Universitat Erlangen-Nurnberg, Erlangen, 91054, Germany
SOURCE: Theoretical Chemistry Accounts (2001), 106(5), 352-363
CODEN: TCACFW; ISSN: 1432-881X
PUBLISHER: Springer-Verlag
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2

RL: PRP (Properties)
(theor. investigation into structures and magnetic properties of smaller fullerenes and heteroanalogs)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

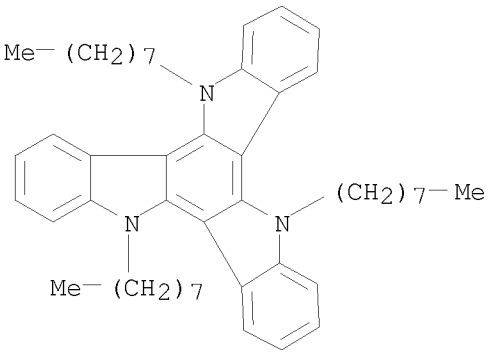


REFERENCE COUNT: 89 THERE ARE 89 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

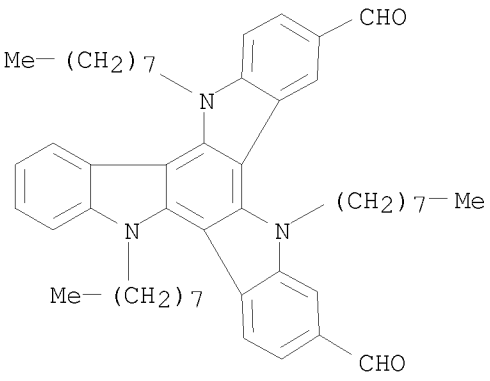
L3 ANSWER 43 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:753086 CAPLUS
DOCUMENT NUMBER: 135:310684
TITLE: Polymer made of triindole derivative and optical device
INVENTOR(S): Okubo, Takashi; Sasa, Takashi; Wada, Tatsuo
PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001288239	A	20011016	JP 2000-105139	20000406
PRIORITY APPLN. INFO.:			JP 2000-105139	20000406

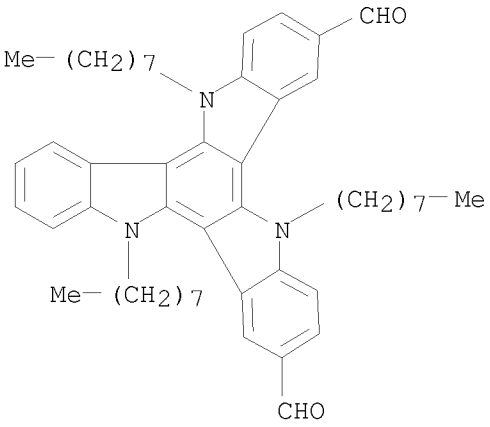
IT 361340-71-8P
RL: IMF (Industrial manufacture); RCT (Reactant); PREP (Preparation); RACT (Reactant or reagent)
(intermediate; for preparation of triindole derivative polymer with photorefractive effect for optical device)
RN 361340-71-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trioctyl- (9CI) (CA INDEX NAME)



IT 361340-77-4P
RL: IMF (Industrial manufacture); PREP (Preparation)
(triindole derivative polymer with photorefractive effect for optical device)
RN 361340-77-4 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,13-dicarboxaldehyde, 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



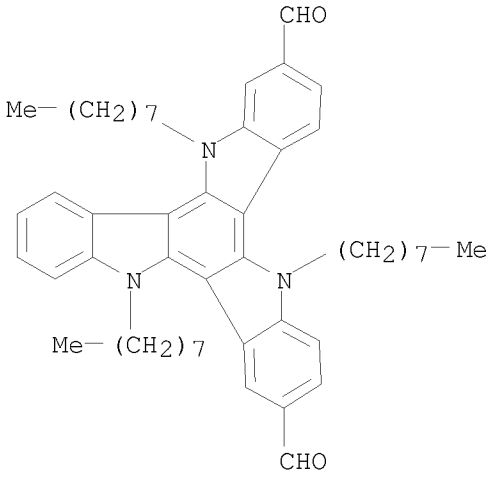
IT 361340-76-3P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(triindole derivative polymer with photorefractive effect for optical device)
RN 361340-76-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8-dicarboxaldehyde, 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



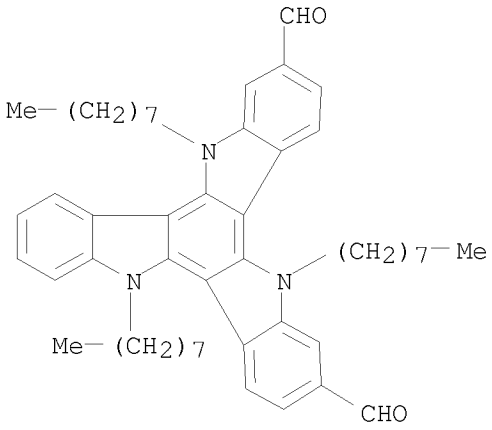
L3 ANSWER 44 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:703446 CAPLUS
DOCUMENT NUMBER: 135:257226
TITLE: Preparation of triindole derivatives as electron donor materials
INVENTOR(S): Okubo, Takashi; Wada, Tatsuo
PATENT ASSIGNEE(S): Institute of Physical and Chemical Research, Japan; Dokutitsu Gyosei Hojin Rikagaku Kenkyusho
SOURCE: Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001261680	A	20010926	JP 2000-71119	20000314
JP 3536053	B2	20040607		
PRIORITY APPLN. INFO.:			JP 2000-71119	20000314

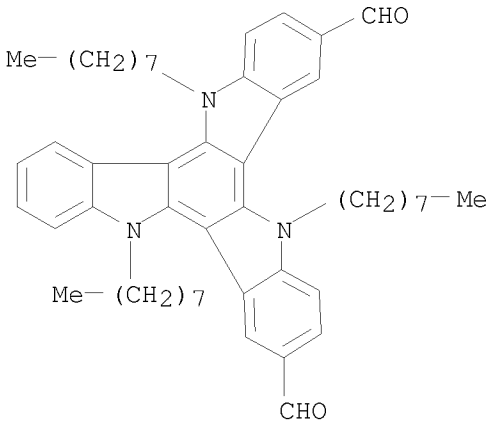
IT 361340-73-0P 361340-75-2P 361340-76-3P
361340-77-4P 361340-78-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation of triindole derivs. as electron donor materials)
RN 361340-73-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,8-dicarboxaldehyde, 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



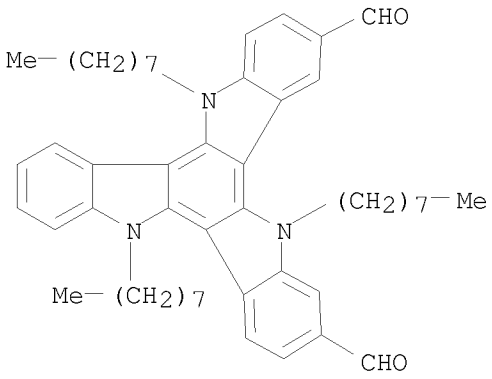
RN 361340-75-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,7-dicarboxaldehyde, 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



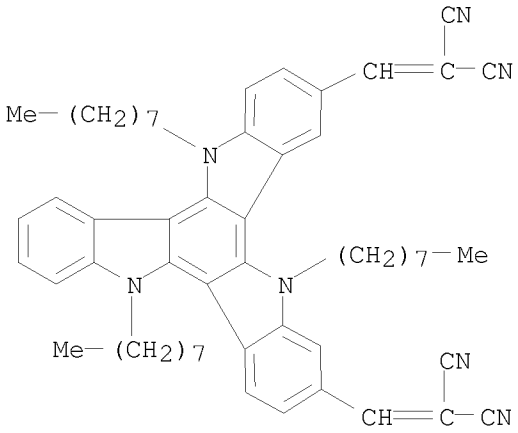
RN 361340-76-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-3,8-dicarboxaldehyde, 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)



RN 361340-77-4 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,13-dicarboxaldehyde, 10,15-dihydro-5,10,15-trioctyl- (CA INDEX NAME)

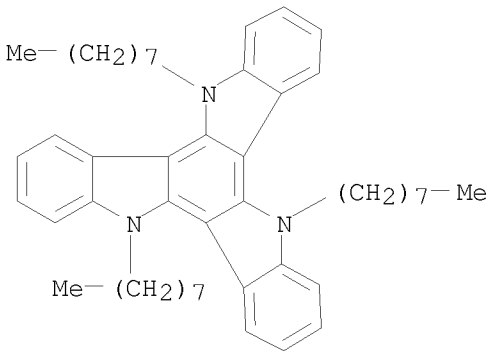


RN 361340-78-5 CAPLUS
CN Propanedinitrile, 2,2'-[(10,15-dihydro-5,10,15-trioctyl-5H-diindolo[3,2-a:3',2'-c]carbazole-2,13-diyl)dimethylidyne]bis- (9CI) (CA INDEX NAME)

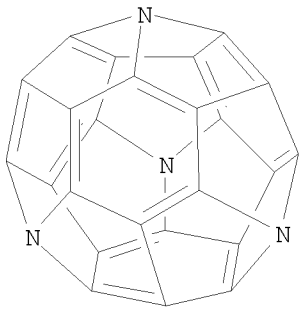


IT 361340-71-8P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)
(preparation of triindole derivs. as electron donor materials)
RN 361340-71-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trioctyl- (9CI) (CA INDEX NAME)

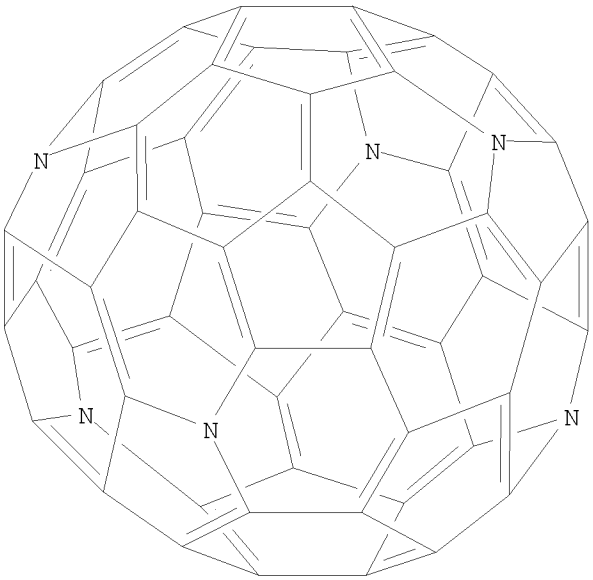


L3 ANSWER 45 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2001:518838 CAPLUS
DOCUMENT NUMBER: 135:322887
TITLE: Electronic structure and chemical stabilization of C28 fullerene
AUTHOR(S): Makurin, Y. N.; Sofronov, A. A.; Gusev, A. I.; Ivanovsky, A. L.
CORPORATE SOURCE: Ural State Technical University, Yekaterinburg, 620002, Russia
SOURCE: Chemical Physics (2001), 270(2), 293-308
CODEN: CMPHC2; ISSN: 0301-0104
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2
RL: PRP (Properties)
(electronic structure and chemical stabilization of C28, C24N4, C24B4 heterofullerenes, and exohedral and endohedral complexes of C28 with halogens, B, C, N, O, Sc, Ti, V, Cr, Fe, and Cu atoms)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

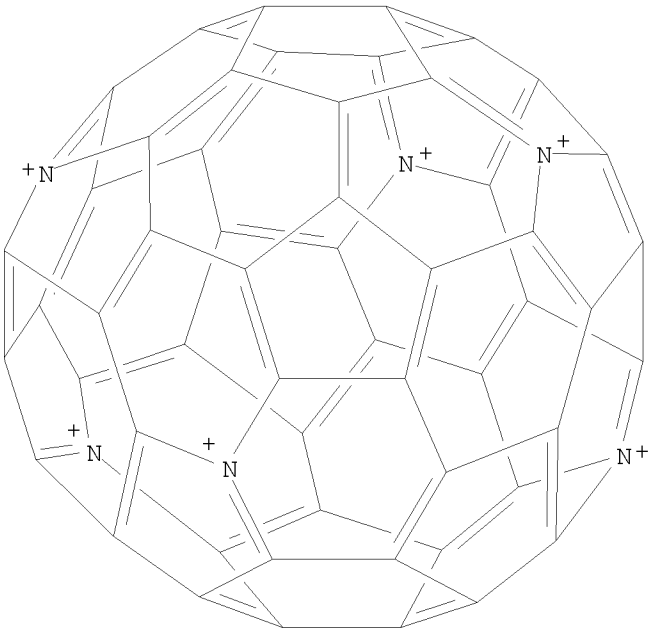


REFERENCE COUNT: 42 THERE ARE 42 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 46 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:833915 CAPLUS
DOCUMENT NUMBER: 134:106125
TITLE: Kinetic instability of azafullerenes
AUTHOR(S): Aihara, J.
CORPORATE SOURCE: Department of Chemistry, Faculty of Science, Shizuoka University, Oya Shizuoka, 422-8529, Japan
SOURCE: THEOCHEM (2000), 532, 95-102
CODEN: THEODJ; ISSN: 0166-1280
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 320373-84-0 320376-58-7
RL: PRP (Properties)
(kinetic instability of azafullerenes studied theor.)
RN 320373-84-0 CAPLUS
CN 1,16,30,40,44,60-Hexaaza[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



RN 320376-58-7 CAPLUS
CN 1,16,30,40,44,60-Hexaazonia[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)



REFERENCE COUNT: 44 THERE ARE 44 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 47 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:735048 CAPLUS
DOCUMENT NUMBER: 134:91376
TITLE: Fullerenes C36n (n=0,2+,2-) and their B- and N-doped analogues
AUTHOR(S): Chen, Z.; Jiao, H.; Hirsch, A.; Thiel, W.
CORPORATE SOURCE: Institut fur Organische Chemie, Universitat Erlangen-Nurnberg, Erlangen, D-91054, Germany
SOURCE: Chemical Physics Letters (2000), 329(1,2), 47-51
CODEN: CHPLBC; ISSN: 0009-2614
PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 316372-66-4
RL: PRP (Properties)
(aromaticity of C36 fullerenes and their B- and N-doped analogs characterized by NICS at cage center)
RN 316372-66-4 CAPLUS
CN 7,11,15,20,24,28-Hexaaza[5,6]fullerene-C36-D6h (9CI) (CA INDEX NAME)

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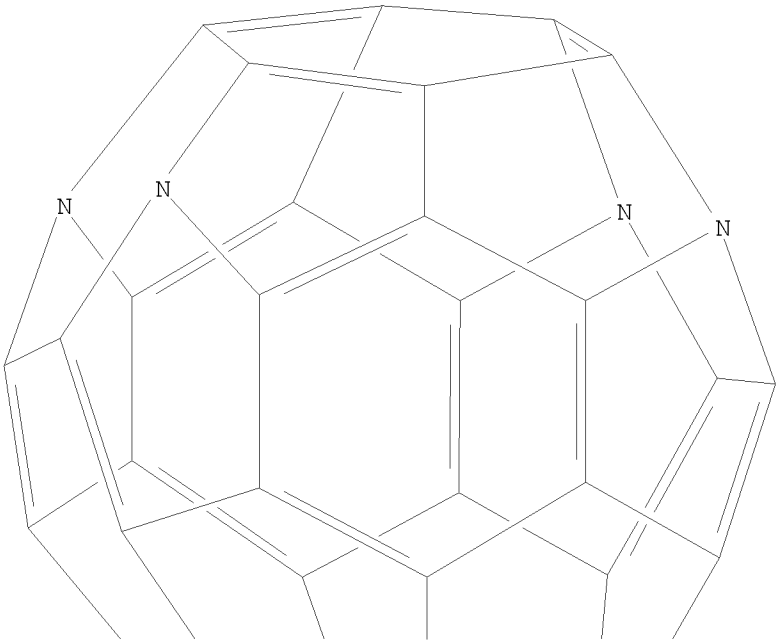

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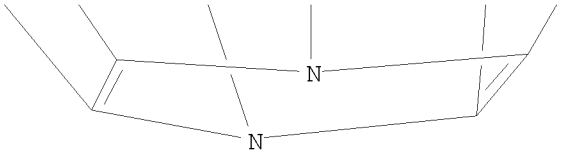


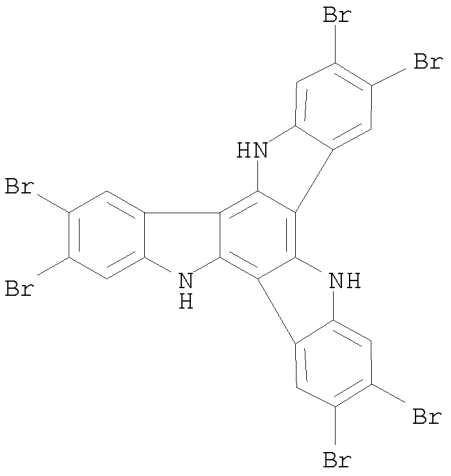
REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 48 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:596645 CAPLUS
DOCUMENT NUMBER: 133:362440
TITLE: Preparation, X-ray structure and properties of a hexabrominated, symmetric indole trimer and its TCNQ adduct: a new route to functional molecular systems
AUTHOR(S): Robertson, Neil; Parsons, S.; MacLean, E. J.; Coxall, R. A.; Mount, Andrew R.
CORPORATE SOURCE: Department of Chemistry, Imperial College of Science, Technology and Medicine, London, SW7 2AY, UK
SOURCE: Journal of Materials Chemistry (2000), 10(9), 2043-2047
CODEN: JMACEP; ISSN: 0959-9428
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 133:362440
IT 307519-60-4P 307519-61-5P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, crystal structure and properties of hexabrominated indole trimer and its TCNQ adduct)

RN 307519-60-4 CAPLUS
CN Formamide, N,N-dimethyl-, compd. with
2,3,7,8,12,13-hexabromo-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole
and 2-propanone (2:1:1) (9CI) (CA INDEX NAME)

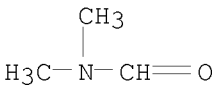
CM 1

CRN 307519-55-7
CMF C24 H9 Br6 N3



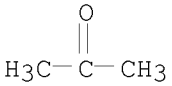
CM 2

CRN 68-12-2
CMF C3 H7 N O



CM 3

CRN 67-64-1
CMF C3 H6 O

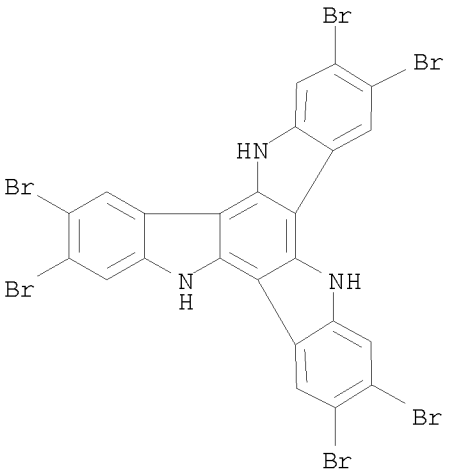


RN 307519-61-5 CAPLUS
CN Propanedinitrile, 2,2'-(2,5-cyclohexadiene-1,4-diylidene)bis-, compd. with
2,3,7,8,12,13-hexabromo-10,15-dihydro-5H-diindolo[3,2-a:3',2'-c]carbazole
and sulfinylbis[methane] (2:1:4) (9CI) (CA INDEX NAME)

CM 1

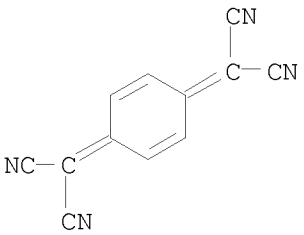
CRN 307519-55-7

CMF C24 H9 Br6 N3



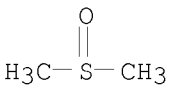
CM 2

CRN 1518-16-7
CMF C12 H4 N4

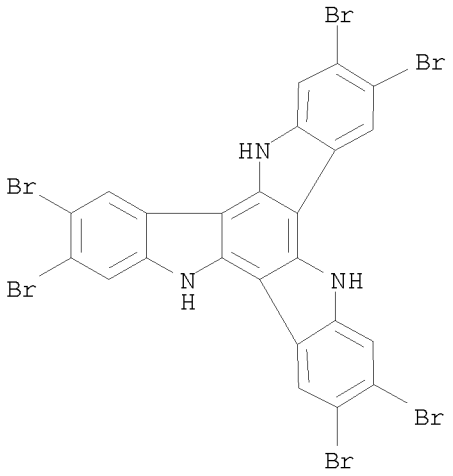


CM 3

CRN 67-68-5
CMF C2 H6 O S

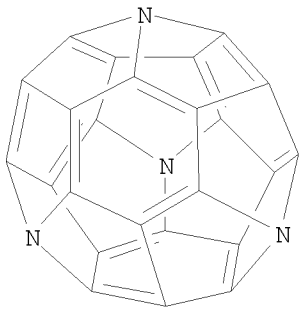


IT 307519-55-7P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, crystal structure and properties of hexabrominated indole trimer and its TCNQ adduct)
RN 307519-55-7 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 2,3,7,8,12,13-hexabromo-10,15-dihydro- (CA INDEX NAME)



REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

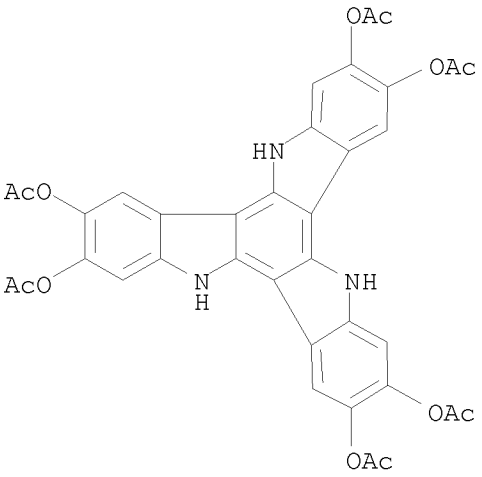
L3 ANSWER 49 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 2000:438881 CAPLUS
DOCUMENT NUMBER: 133:155665
TITLE: Electronic structure and conditions for the chemical stabilization of fullerene C28. Heterofullerenes C24B4 and C24N4
AUTHOR(S): Sofronov, A. A.; Makurin, Yu. N.; Ivanovskii, A. L.
CORPORATE SOURCE: Ural State Technical University, Yekaterinburg, Russia
SOURCE: Russian Journal of Coordination Chemistry (Translation of Koordinatsionnaya Khimiya) (2000), 26(6), 406-412
CODEN: RJCCEY; ISSN: 1070-3284
PUBLISHER: MAIK Nauka/Interperiodica Publishing
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td
RL: PRP (Properties)
(electronic structures and conditions for chemical stabilization of fullerene C28, and heterofullerenes C24B4 and C24N4 studied theor.)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



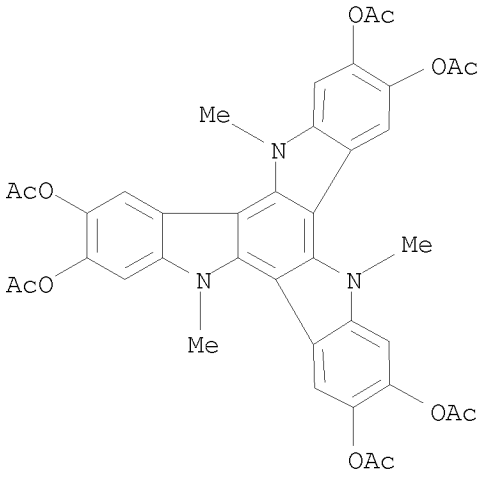
REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 50 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN

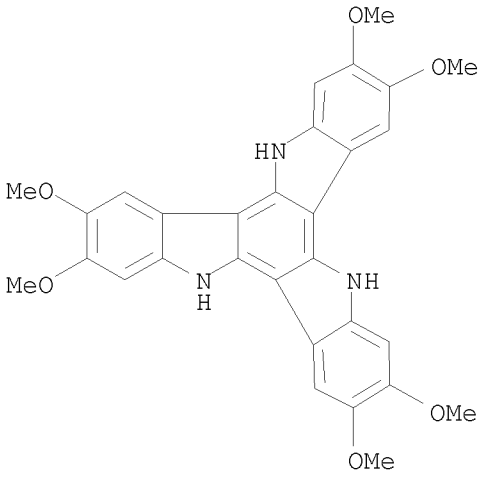
ACCESSION NUMBER: 1998:595164 CAPLUS
DOCUMENT NUMBER: 129:290079
ORIGINAL REFERENCE NO.: 129:59119a,59122a
TITLE: Acid-Promoted Competing Pathways in the Oxidative Polymerization of 5,6-Dihydroxyindoles and Related Compounds: Straightforward Cyclotrimerization Routes to Diindolocarbazole Derivatives
AUTHOR(S): Manini, Paola; d'Ischia, Marco; Milosa, Mario; Prota, Giuseppe
CORPORATE SOURCE: Department of Organic and Biological Chemistry, University of Naples Federico II, Naples, I-80134, Italy
SOURCE: Journal of Organic Chemistry (1998), 63(20), 7002-7008
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 129:290079
IT 214262-46-1P 214262-47-2P 214262-48-3P
214262-56-3P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation by oxidation of 5,6-methoxyindoles and related compds.)
RN 214262-46-1 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexol, 10,15-dihydro-, 2,3,7,8,12,13-hexaacetate (CA INDEX NAME)



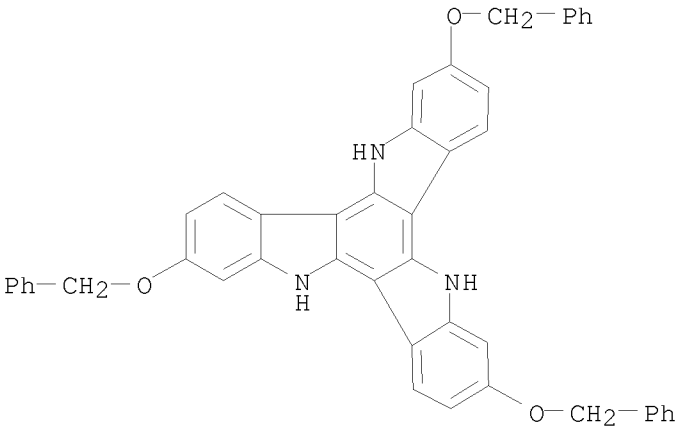
RN 214262-47-2 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole-2,3,7,8,12,13-hexol, 10,15-dihydro-5,10,15-trimethyl-, 2,3,7,8,12,13-hexaacetate (CA INDEX NAME)



RN 214262-48-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
10,15-dihydro-2,3,7,8,12,13-hexamethoxy- (9CI) (CA INDEX NAME)

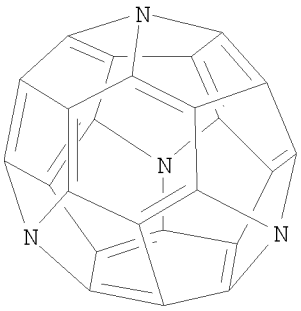


RN 214262-56-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
10,15-dihydro-2,7,12-tris(phenylmethoxy)- (9CI) (CA INDEX NAME)



REFERENCE COUNT: 31 THERE ARE 31 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

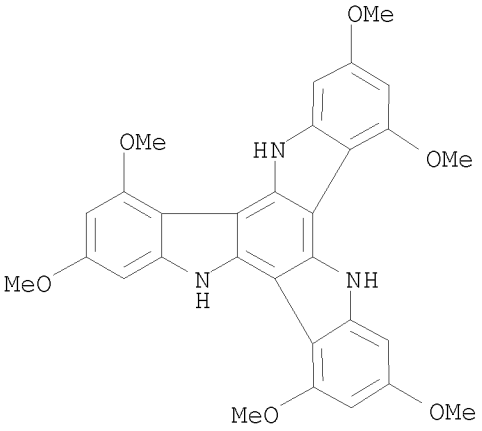
L3 ANSWER 51 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1997:360842 CAPLUS
DOCUMENT NUMBER: 127:113609
ORIGINAL REFERENCE NO.: 127:21817a,21820a
TITLE: Stability of X4Y24q (X = C, Si; Y = B, Al, C, Si, N, P; q = -4 to 4) and C28X4 (X = H, F, Cl, Br, I)
AUTHOR(S): Zhong, Shi-Jun; Liu, Chun-Wan
CORPORATE SOURCE: Center of Computer Network, Xiamen University, Xiamen, Peop. Rep. China
SOURCE: THEOCHEM (1997), 392, 125-136
CODEN: THEODJ; ISSN: 0166-1280
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td
RL: PRP (Properties)
(electronic structures, energetics, and mol. structures of X4Y24q (x = C, Si; Y = B, Al, C, Si, N, P; q = -4 to 4) and C28X4 (x = H, F, Cl, Br, I) studied with MNDO calcns.)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



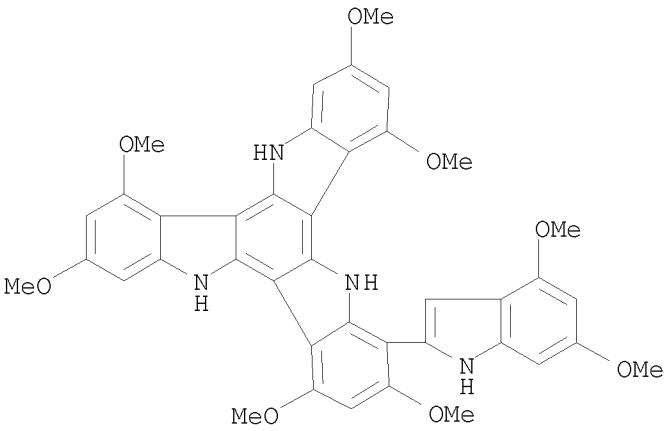
REFERENCE COUNT: 78 THERE ARE 78 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L3 ANSWER 52 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1996:197541 CAPLUS

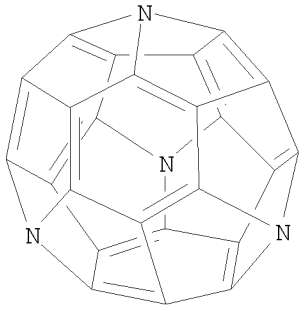
DOCUMENT NUMBER: 124:343046
ORIGINAL REFERENCE NO.: 124:63711a,63714a
TITLE: Synthesis of biindolyls by the reaction of indoles with indolin-2-ones and phosphoryl chloride or trifluoromethanesulfonic anhydride
AUTHOR(S): Black, David StC.; Ivory, Andrew J.; Kumar, Naresh
CORPORATE SOURCE: School Chemistry, The Univ. New South Wales, Sydney, 2052, Australia
SOURCE: Tetrahedron (1996), 52(13), 4697-708
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 124:343046
IT 176722-81-9P 176722-82-0P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 176722-81-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
10,15-dihydro-2,4,7,9,12,14-hexamethoxy- (9CI) (CA INDEX NAME)



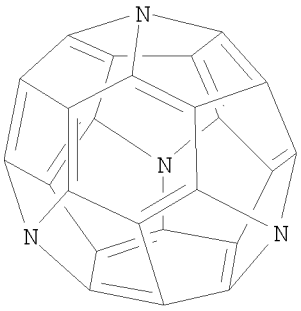
RN 176722-82-0 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole,
1-(4,6-dimethoxy-1H-indol-2-yl)-10,15-dihydro-2,4,7,9,12,14-hexamethoxy-
(CA INDEX NAME)



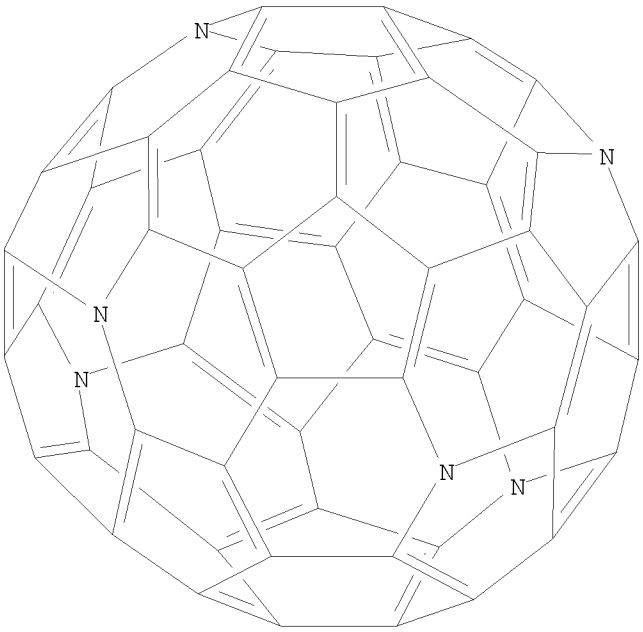
L3 ANSWER 53 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1996:92437 CAPLUS
DOCUMENT NUMBER: 124:156588
ORIGINAL REFERENCE NO.: 124:28867a,28870a
TITLE: Theoretical study of C24N4 molecule
AUTHOR(S): Sun, Kuang-Chung; Chen, Cheng
CORPORATE SOURCE: Taoyuan, 33509, Taiwan
SOURCE: THEOCHEM (1996), 360, 157-65
CODEN: THEODJ; ISSN: 0166-1280
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td
RL: PRP (Properties)
(ab initio, PM3 and AM1 study of tetraaza fullerene C24N4)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



L3 ANSWER 54 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1996:14694 CAPLUS
DOCUMENT NUMBER: 124:127475
ORIGINAL REFERENCE NO.: 124:23511a,23514a
TITLE: A semiempirical study of C24N4 and its boron-nitrogen analogs
AUTHOR(S): Wang, Bo-Cheng; Yu, Liang-Jye; Wang, Wen-Jwu
CORPORATE SOURCE: Dep. Chem., Tamkang Univ., Tamsui, 251, Taiwan
SOURCE: International Journal of Quantum Chemistry (1996), 57(3), 465-70
CODEN: IJQCB2; ISSN: 0020-7608
PUBLISHER: Wiley
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td
RL: PRP (Properties)
(semiempirical study of C24N4 and its boron-nitrogen analogs)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

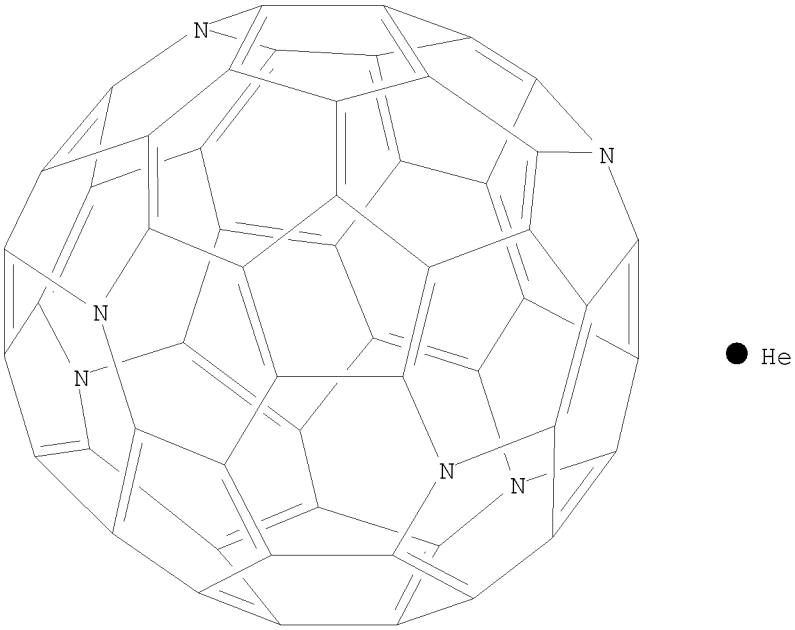


L3 ANSWER 55 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:791107 CAPLUS
DOCUMENT NUMBER: 123:313336
ORIGINAL REFERENCE NO.: 123:56155a,56158a
TITLE: C54N6, a potentially aromatic molecule
AUTHOR(S): Buehl, Michael
CORPORATE SOURCE: Organisch-Chemisches Institut, Universitaet Zuerich, Winterthurerstrasse 190, Zurich, CH-8057, Switz.
SOURCE: Chemical Physics Letters (1995), 242(6), 580-4
CODEN: CHPLBC; ISSN: 0009-2614
PUBLISHER: Elsevier
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 170123-59-8 170123-65-6
RL: PRP (Properties)
(MO calcns. for mol. structure, total energy and NMR chemical shifts of hexaaza heterofullerene isomers)
RN 170123-59-8 CAPLUS
CN 1,17,21,28,50,57-Hexaaza[5,6]fullerene-C60-Ih (9CI) (CA INDEX NAME)

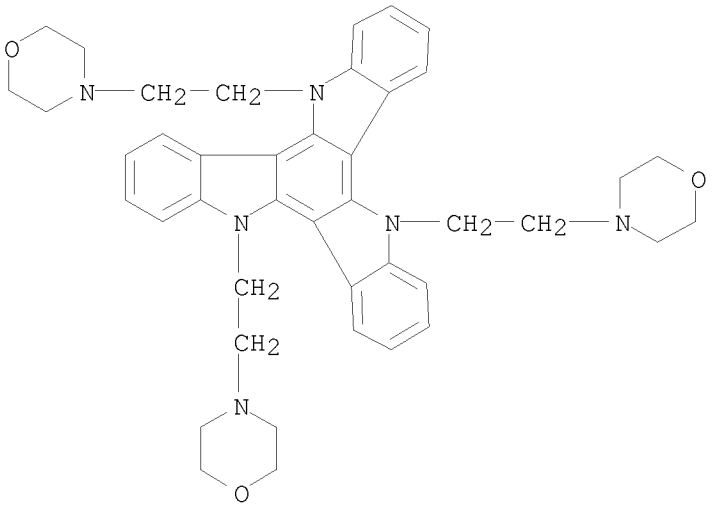


RN 170123-65-6 CAPLUS
CN 1,17,21,28,50,57-Hexaaza[5,6]fullerene-C60-Ih, compd. with helium (1:1)

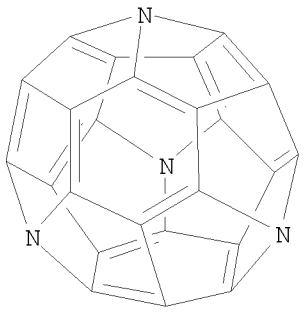
(9CI) (CA INDEX NAME)



L3 ANSWER 56 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1995:699200 CAPLUS
DOCUMENT NUMBER: 123:131983
ORIGINAL REFERENCE NO.: 123:23133a,23136a
TITLE: Aminoalkylindoles: Structure-Activity Relationships of Novel Cannabinoid Mimetics
AUTHOR(S): Eissenstat, Michael A.; Bell, Malcolm R.; D'Ambra, Thomas E.; Alexander, E. John; Daum, Sol J.; Ackerman, James H.; Gruett, Monte D.; Kumar, Virendra; Estep, Kimberly G.; et al.
CORPORATE SOURCE: Department of Medicinal Chemistry, Sterling Winthrop Pharmaceuticals Research Division, Collegeville, PA, 19426-0900, USA
SOURCE: Journal of Medicinal Chemistry (1995), 38(16), 3094-105
CODEN: JMCMAR; ISSN: 0022-2623
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 166599-59-3P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(in preparation of aminoalkylindole cannabinoid mimetics)
RN 166599-59-3 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-tris[2-(4-morpholinyl)ethyl]- (9CI) (CA INDEX NAME)

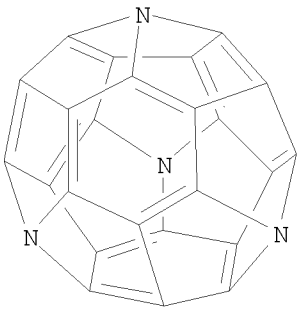


L3 ANSWER 57 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:638755 CAPLUS
DOCUMENT NUMBER: 121:238755
ORIGINAL REFERENCE NO.: 121:43381a,43384a
TITLE: Theoretical study of passivated small fullerenes C24X4 (X = N, P, As) and their isoelectronic equivalents (BN)12X4
AUTHOR(S): Kaxiras, Efthimios; Jackson, Koblar; Pederson, Mark R.
CORPORATE SOURCE: Department of Physics and Division of Applied Sciences, Harvard University, Cambridge, MA, 02138, USA
SOURCE: Chemical Physics Letters (1994), 225(4-6), 448-53
CODEN: CHPLBC; ISSN: 0009-2614
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td
RL: PRP (Properties)
(electronic and structural properties of fullerene pnictides studied by first-principles calcns.)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

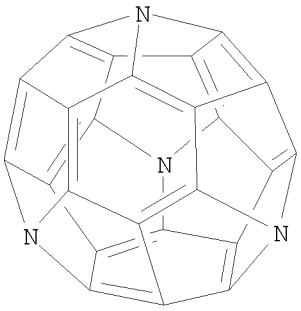


L3 ANSWER 58 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1994:227560 CAPLUS
DOCUMENT NUMBER: 120:227560

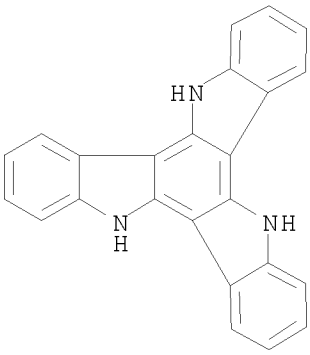
ORIGINAL REFERENCE NO.: 120:40204h,40205a
TITLE: Calculations on heterofullerenes: C24N4, C36N4 and C52N4
AUTHOR(S): Wang, Bo Cheng; Yu, Liang Jye; Wang, Wen Jwu
CORPORATE SOURCE: Dep. Chem., Tamkang Univ., Tamsui, 25137, Taiwan
SOURCE: Journal of the Chinese Chemical Society (Taipei, Taiwan) (1993), 40(6), 497-502
CODEN: JCCTAC; ISSN: 0009-4536
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td
RL: PRP (Properties)
(energetics and geometry and electronic structure of, mol.-mechanics and HMO and MNDO calcn. of)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)



L3 ANSWER 59 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1993:503716 CAPLUS
DOCUMENT NUMBER: 119:103716
ORIGINAL REFERENCE NO.: 119:18499a,18502a
TITLE: The tetravalence of fullerene C28.
AUTHOR(S): Fowler, Patrick W.; Austin, Sarah J.; Sandall, John P. B.
CORPORATE SOURCE: Dep. Chem., Univ. Exeter, Exeter, EX4 4QD, UK
SOURCE: Journal of the Chemical Society, Perkin Transactions 2: Physical Organic Chemistry (1972-1999) (1993), (5), 795-7
CODEN: JCPKBH; ISSN: 0300-9580
DOCUMENT TYPE: Journal
LANGUAGE: English
IT 149333-56-2, 1,14,18,22-Tetraaza[5,6]Fullerene-C28-Td
RL: PRP (Properties)
(tetravalence of carbon and)
RN 149333-56-2 CAPLUS
CN 7,11,15,28-Tetraaza[5,6]fullerene-C28-Td (9CI) (CA INDEX NAME)

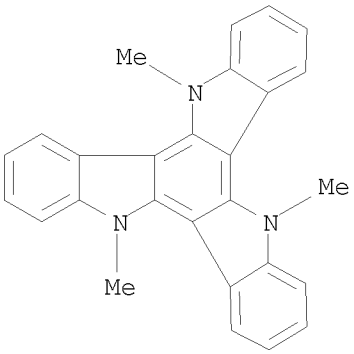


L3 ANSWER 60 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1987:439553 CAPLUS
DOCUMENT NUMBER: 107:39553
ORIGINAL REFERENCE NO.: 107:6607a,6610a
TITLE: Synthesis and characterization of new indole trimers and tetramers
AUTHOR(S): Bocchi, Vittorio; Palla, Gerardo
CORPORATE SOURCE: Ist. Chim. Org., Univ. Parma, Parma, I-43100, Italy
SOURCE: Tetrahedron (1986), 42(18), 5019-24
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 107:39553
IT 109005-10-9P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
RN 109005-10-9 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro- (CA INDEX NAME)

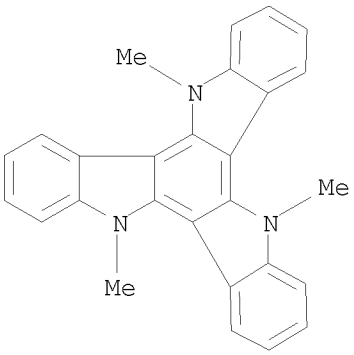


L3 ANSWER 61 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1981:121220 CAPLUS
DOCUMENT NUMBER: 94:121220
ORIGINAL REFERENCE NO.: 94:19811a,19814a
TITLE: Synthesis of 2,2'-biindolyls by coupling reactions
AUTHOR(S): Bergman, Jan; Eklund, Nils
CORPORATE SOURCE: Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100 44, Swed.
SOURCE: Tetrahedron (1980), 36(10), 1439-43
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal

LANGUAGE: English
OTHER SOURCE(S): CASREACT 94:121220
IT 75833-66-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, from iodomethylindole)
RN 75833-66-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



L3 ANSWER 62 OF 62 CAPLUS COPYRIGHT 2009 ACS on STN
ACCESSION NUMBER: 1981:3948 CAPLUS
DOCUMENT NUMBER: 94:3948
ORIGINAL REFERENCE NO.: 94:735a,738a
TITLE: Synthesis and studies of tris-indolobenzenes and related compounds
AUTHOR(S): Bergman, Jan; Eklund, Nils
CORPORATE SOURCE: Dep. Org. Chem., R. Inst. Technol., Stockholm, S-100 44, Swed.
SOURCE: Tetrahedron (1980), 36(10), 1445-50
CODEN: TETRAB; ISSN: 0040-4020
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 94:3948
IT 75833-66-8P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, by Vilsmeier reaction of methyloxindole with methylindole)
RN 75833-66-8 CAPLUS
CN 5H-Diindolo[3,2-a:3',2'-c]carbazole, 10,15-dihydro-5,10,15-trimethyl- (CA INDEX NAME)



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=> FIL STNGUIDE
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                     244.68     430.78

FILE 'STNGUIDE' ENTERED AT 14:13:08 ON 06 JAN 2009
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Dec 19, 2008 (20081219/UP).

=>
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